



RAFFIULLAH GOLDEN FILE-9

8th Edition

17th September 2019
Medicine Afternoon

1. CSF osmolality is more than plasma due to?

- a. Low potassium
- b. Low glucose
- c. High protein
- d. High glucose

Ans: B

2. A patient with cervical dysplasia is suspected to have cervical Ca. Which of the following tests is advised initially which is easily performed, useful and cost effective?

- a. Fine needle aspiration
- b. Ultrasound
- c. Curettage
- d. Colposcopy
- e. Pap smear

Ans: E

3. Proteins cannot pass through basement membrane due to which characteristic of protein?

- a. Size
- b. Positive charge
- c. Negative charge
- d. Hydrophobic

Ans: C

4. The most important criteria for diagnosis of malignancy is?

- a. Increase nuclear cytoplasmic ratio
- b. Pleomorphism
- c. Hyperplasia
- d. Metastasis
- e. Invasion

Ans: D

5. Myelination of nerve fiber of CNS in intrauterine life begins at?

- a. 4 months
- b. 10 weeks
- c. End of 11 weeks
- d. 6 months
- e. At term

Ans: A

6. Which regarding pseudostratified epithelium is true?

- a. Has microvilli
- b. Cell with oval nuclei
- c. Have cilia
- d. Scanty cytoplasm

- e. All cell reach basement membrane

Ans: E

7. Thoracolumbar outflow is?

- a. Parasympathetic
- b. Has Cranial nerves
- c. Sympathetic
- d. Adrenergic

Ans: C

8. Which hormone primarily uses cyclic amp as a secondary messenger?

- a. Aldosterone
- b. TSH
- c. ADH
- d. ANP
- e. Nitric oxide

Ans: B

9. Supporting cells in pars nervosa are?

- a. Pituicytes
- b. Astrocytes
- c. Herring body
- d. Granules
- e. Axons

Ans: A

10. Which of the following tributaries will dilate as a result of lung tumor compressing azygous vein?

- a. Right ascending lumbar
- b. Left ascending lumbar
- c. Ascending lumbar
- d. Right ascending lumbar and subcostal
- e. Lt ascending lumbar and subcostal

Ans: D

11. Extreme flexion of the neck causes damage to which ligament?

- a. Posterior longitudinal ligament
- b. Ligamentum nuchae
- c. Ligamentum flavum
- d. Anterior longitudinal ligament
- e. Apical ligament

Ans: B

12. The neurotransmitter which is secreted at autonomic ganglia is?

- a. Epinephrine
- b. Dopamine
- c. ACh
- d. Serotonin
- e. Histamine

Ans: C

13. Regarding Hypersplenism:

- a. There is inevitable splenomegaly
- b. Platelet count returns to normal after splenectomy
- c. Neutropenia is uncommon

Ans: B

14. A patient with TB undergoing treatment presents with complains of inability to differentiate between red and green color. Which of the following drug is responsible for this?

- a. Pyrazinamide
- b. Rifampicin
- c. Isoniazid
- d. Streptomycin
- e. Ethambutol

Ans: E

15. A 25-year-old female presented with shortness of breath on exertion, palpitation and atypical chest pain. O/E BP was 130/90, pulse 80bpm and a grade II systolic murmur was heard in the 4th intercostal space with normal ECG and CXR. What is the diagnosis?

- a. ASD
- b. Pulmonary stenosis
- c. Aortic stenosis
- d. Normal heart
- e. Coarctation of aorta

Ans: D

16. Renin secretion is increased. It causes vasoconstriction by increasing the concentration of?

- a. Angiotensin2
- b. ADH secretion
- c. Angiotensin 1
- d. Aldosterone

Ans: A

17. Drug of choice for Trichomoniasis is?

- a. Oxytetracycline
- b. Penicillin
- c. Co-trimoxazole
- d. Metronidazole

Ans: D

18. A pt with Tenia Solium and Schistosoma infection. Drug of

choice will be?

- a. Praziquantel
- b. Niclosamide
- c. Albendazole
- d. Mebendazole
- e. Clotrimazole

Ans: A

19. Which of the following is an important premalignant lesion leading to SCC?

- a. Bowen disease
- b. Actinic keratosis
- c. Dysplastic naevus
- d. Leukoplakia
- e. Hamartoma

Ans: A

20. Most important function of progesterone?

- a. Breast alveolar duct development
- b. Decrease uterine contraction in pregnancy
- c. Secretory phase endometrium
- d. Maintain thickness of endometrium
- e. Fat deposition

Ans: D

21. A man presents with pallor with malabsorption problems. Blood exam revealed decrease RBC count, anisocytosis and poikilocytosis with raised MCV. Which part is affected?

- a. Duodenum
- b. Stomach
- c. Colon
- d. Jejunum
- e. Ileum

Ans: E

22. Mechanism of action of Propylthiouracil is?

- a. Decrease synthesis of thyroglobulin
- b. Blocks synthesis of thyroid hormones
- c. Inhibits hormone release
- d. Control hypothalamic temp set point
- e. Inhibit iodide pump

Ans: B

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23. A pt. After taking an analgesic overdose experienced hyperventilation, tachycardia, and metabolic acidosis. The most likely drug is?

- a. Diclofenac
- b. Acetyl salicylic
- c. Ibuprofen
- d. Ketamine
- e. Ketotifen

Ans: B

24. A patient present with fever and cough since last one month. Biopsy shows epithelioid cells and X-ray shows diffuse nodular opacities. What is the likely diagnosis?

- a. Asbestosis
- b. Tuberculosis
- c. Pulmonary embolism
- d. COPD

Ans: B

25. Vibrio cholera causes diarrhea by which mechanism?

- a. Inhibits IP_3
- b. Inhibits cAMP
- c. Increase Cl channel opening
- d. Decrease HCO_3

Ans: C

26. p value of a drug will be significant if it is less than?

- a. 0.8
- b. 0.1
- c. 0.4
- d. 0.05
- e. 0.2

Ans: D

27. A patient present with nausea, vomiting and vertigo. This is associate with lesion in?

- a. Dorsal nucleus
- b. Dorsal nucleus juxtaposed to vestibular nucleus
- c. Medulla
- d. Hippocampus
- e. Chemoreceptor zone

Ans: B

28. Patient comes to ER with severe chest pain and sweating. Which of the following will be used for thrombolysis?

- a. Streptokinase
- b. Plasmin

- c. Antitrypsin
- d. Heparin
- e. Warfarin

Ans: A

29. Intrinsic factor is secreted from which part of GIT?

- a. Pylorus
- b. Fundus
- c. Antrum
- d. Lesser curvature
- e. Duodenum

Ans: B

30. Which of the following will help in diagnosis COPD?

- a. Physiologic dead space
- b. Physiologic shunt
- c. V/Q mismatch 1
- d. V/Q mismatch infinity
- e. V/Q mismatch 0.1

Ans: E (if $V/Q < 0.1$ in options prefer that)

31. For an adult, the normal dietary proteins required per day is?

- a. 15 gm/kg
- b. 0.5 gm/kg
- c. 1 gm/kg
- d. 5 gm/kg
- e. 10 gm/kg

Ans: C

32. A 65-year diabetic female came in with BP 160/90. First line drug to be given is?

- a. Lisinopril
- b. Lisinopril and hydrochlorothiazide
- c. Propanalol
- d. Amlodipine
- e. Furosemide

Ans: A

33. A 20-year man with rheumatic valvular heart disease has been running a low grade fever for the last of two weeks. In addition to a pansystolic murmur, he is found to have splenomegaly and clubbing. The treatment should commence with?

- a. Inj. Cefotaxime and Metronidazole
- b. Inj. Ceftriaxone
- c. Inj. Penicillin
- d. Inj. Penicillin and gentamycin
- e. Inj. Ciprofloxacin

Ans: D

34. Function of Sternocleidomastoid is?

- a. Turns the neck to the same side against resistance
- b. Flexes neck
- c. Extends neck
- d. Turns the neck to opposite side against resistance

Ans: D

35. Relation anterior to hilum of the right kidney is?

- a. Liver
- b. Small intestine
- c. Second part of duodenum
- d. Suprarenal gland
- e. Hepatic flexure of transverse colon

Ans: C

36. Patient with severe gastroenteritis develops hypokalemia. To treat hypokalemia, I.V potassium infusion is advised. MOA of I.V potassium infusion in this patient is through?

- a. H-K ATPase
- b. Leaky channels
- c. K channels
- d. Cl channels
- e. Na-K pump

Ans: E

37. Veins can store more blood than arteries due to increased?

- a. pH
- b. Oxygen
- c. Compliance
- d. Hb
- e. Temperature

Ans: C

38. Gastrin secretion is decreased by?

- a. Amino acid
- b. Food in stomach
- c. Gastric distention
- d. Somatostatin
- e. Epinephrine

Ans: D

39. Main action of gut somatostatin is to mainly inhibit?

- a. CCK
- b. Insulin
- c. Pancreatic polypeptide
- d. FSH

Ans: B

40. Splitting of S2 is caused by?

- a. Delayed closure of pulmonic valve
- b. Delayed closure of aortic
- c. Delayed closure of tricuspid
- d. Delayed closure of mitral

Ans: A

41. Drug contraindicated in HOCM is?

- a. Amiodarone
- b. Beta blocker
- c. Calcium channel blocker
- d. Diuretic
- e. Digoxin

Ans: E

42. Microscopic diagnostic feature of TB lesion is?

- a. Caseous necrosis
- b. Epithelioid cells
- c. Langerhans cells
- d. AFB
- e. Epithelioid granuloma

Ans: A

43. Earliest symptom of acute anoxic anoxia is?

- a. Lassitude
- b. Euphoria
- c. Headache
- d. Increase respiratory rate
- e. Seizures

Ans: A

44. A chronic smoker is working at a tire factory. He develops painless hematuria and was diagnosed as bladder Ca. What is the cause of carcinoma in him?

- a. Smoking
- b. Aryl amine
- c. Nitrates
- d. Radiation

Ans: A

45. Few days after typhoid, bacteria most likely resides in?

- a. Gall bladder
- b. Liver
- c. Spleen
- d. Payers patches
- e. Kidney

Ans: D

46. A man working in a well-ventilated room started sweating profusely. O/E BP was high, pulse tachycardiac at a room temperature of 26°C. The most likely cause is?

a. Heat stroke
b. Mental stress
c. Exercise
d. Sympatholytic

Ans: C

47. Pt with severe vomiting and diarrhea for 1 day presented with tachypnea and respiratory rate 22, hypotension. Labs showed hypochloremic, hyponatraemia and hypokalemia. What is the diagnosis?

a. Metabolic alkalosis
b. Metabolic acidosis
c. Respiratory acidosis
d. Respiratory alkalosis
e. Renal tubular acidosis

Ans: A

48. An example of Type 3 hypersensitivity is?

a. Mantoux test
b. Blood transfusion reaction
c. Graft vs. host reaction
d. Farmer lung
e. Hypersensitivity reaction

Ans: D

49. Increase in arterial pressure with decreased TPR is due to?

a. Blood Transfusion
b. Sympathetic activity
c. Exercise
d. Hemorrhage

Ans: C

50. Characteristic sign of penicillin allergy is?

a. Rash
b. Fever
c. Bronchospasm
d. Seizures
e. Nephrotoxicity

Ans: C

51. Regarding smooth muscle fibers, which is most appropriate?

a. Branching pattern
b. Mononucleated
c. Multinucleated

d. Large cylindrical fibers
e. Striated

Ans: B

52. A young boy developed fever, hypotension and erythematous patches all over trunk and limbs. Toxin involved is?

a. Endotoxin
b. Exotoxin
c. Enterotoxin
d. Erythrogenic toxin

Ans: D (Toxic shock syndrome/scarlet fever)

53. Which of the following can directly induce an antibody response without the involvement of helper T cells?

a. Tetanus toxoid
b. Bovine serum albumin
c. Hep B vaccine
d. Rabbit immunoglobulin
e. Bacterial lipopolysaccharide and flagellin

Ans: E

54. How do erythrocytes prevent from oxidative stress?

a. Enzymes in mitochondria
b. Enzymes in cytoplasm
c. Ankyrin and spectrin
d. HMP shunt
e. G6PD

Ans: D

55. Metabolic acidosis is due to?

a. Excessive use of loop diuretics
b. Conns syndrome
c. Excessive use of carbonic anhydrase inhibitor
d. Cushing syndrome

Ans: C

56. Following are effect of parasympathetic activity, except?

a. Copious secretion from glands
b. Reduce heart rate
c. Relax GIT sphincter
d. Bronchoconstriction
e. Inhibits secretin

Ans: E

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57. A patient present with headache, fever and vomiting was diagnosed as meningitis. CSF result *Cryptococcus*. Drug of choice is?

- a. Ketoconazole
- b. Nystatin
- c. Itraconazole
- d. Amphotericin B

Ans: D

58. An 11-month-old infant had upper and lower respiratory tract infections almost continuously since birth with organisms including *Pneumocystis jirovecii* and *Pseudomonas aeruginosa* identified. The baby also has oropharyngeal candidiasis. The baby succumbs to a cytomegalovirus pneumonia. At autopsy thymus is markedly hypoplastic, and lymph nodes throughout the body are small, with absent germinal centers on microscopic examination. Which of the following mechanisms is most likely to explain these findings?

- a. Thymic hypoplasia
- b. Human immunodeficiency virus infection
- c. Adenosine deaminase deficiency
- d. Autoantibodies to both T and B lymphocytes
- e. Failure of development of 3rd and 4th pharyngeal pouches

Ans: C

59. Which of the following viruses is associated with human cervical cancer?

- a. HPV 16
- b. HPV 6
- c. HPV 8
- d. HPV 20
- e. Epstein Barr virus

Ans: A

60. A man presents with shortness of breath. CXR shows diffuse interstitial fibrosis. Likely cause is?

- a. Organic dust
- b. Silica particles
- c. Radon
- d. Histoplasmosis
- e. Inorganic dust

Ans: E

61. A patient died in ER with longstanding pulmonary congestion due to mitral stenosis. On autopsy, the alveoli will be lined by which of the following?

- a. Type 1 pneumocytes
- b. Types 2 pneumocytes
- c. Lymphocytes
- d. Heart failure macrophages
- e. Eosinophils

Ans: D

62. In the last trimester of pregnancy estrogen and progesterone are produced by?

- a. Placenta
- b. Corpus luteum
- c. Hypothalamus
- d. Anterior pituitary
- e. Posterior pituitary

Ans: A

63. Lesion in optic chiasma causes which of the following?

- a. Binocular hemianopia
- b. Bitemporal hemianopia
- c. Homonymous hemianopia
- d. Upper quadrantic

Ans: B

64. A known Hodgkin lymphoma pt presents with high grade fever and vomiting. O/E neck stiffness and Kernig sign was positive. CSF shows a fungal organism. Which organism is most likely responsible for it?

- a. *Coccidioidomycosis*
- b. *Aspergillus*
- c. *Cryptococcus*
- d. *Histoplasmosis*
- e. *Staph Aureus*

Ans: C

65. A tall man performing in circus develops sudden excruciating tearing chest pain and lens dislocation. O/E BP 90/40 and heart rate 130. The cause of chest pain is?

- a. Mallory Weiss syndrome
- b. Cardiopulmonary failure
- c. Atrial fibrillation
- d. Dissecting aortic aneurysm
- e. Ehler-Danlos syndrome

Ans: D

66. A 23-year-old woman has had worsening malaise along with a malar skin rash persisting for 3 weeks. On physical examination, she has an audible friction rub on auscultation of the chest, along with a faint systolic murmur. An echocardiogram reveals small vegetation on the mitral valve and adjacent ventricular endocardium. Laboratory studies show a positive serologic test for anti-Smith antibody and ANA. Which of the following is the most likely diagnosis?

- a. Systemic lupus erythematosus
- b. Polyarteritis nodosa
- c. Diffuse Scleroderma
- d. ANCA-associated granulomatous vasculitis
- e. Adenocarcinoma of the pancreas

Ans: A

67. Injury causing hyperextension of neck and damage to cervical cord is by?

- a. Loss of pain in lower limb
- b. Pain on opposite side
- c. LMN lesion of upper limb
- d. UMN lesion of lower limb
- e. LMN lesion of lower limb

Ans: C

68. Acrosome are formed by?

- a. Endoplasmic reticulum
- b. Lysosome
- c. Nucleolus
- d. Golgi body

Ans: D

69. A patient presented on 18th day of menstrual cycle. Which phase will she be in?

- a. Follicular
- b. Ovulatory
- c. Pre menstrual
- d. Proliferative
- e. Secretory

Ans: E

70. A female presents weight gain despite loss appetite, uses warm clothes in hot summer and intolerance to cold. Next best investigation will be?

- a. T3 level

- b. TSH level
- c. T4 level
- d. CBC
- e. Ultrasound

Ans: D

71. Broca's area is located in?

- a. Inferior frontal gyrus
- b. Posterior frontal gyrus
- c. Superior temporal
- d. Lateral temporal

Ans: A

72. In reflex arc, which part of the brain is involved?

- a. Cerebellum
- b. Cerebral cortex
- c. Mid brain
- d. Thalamus
- e. Pons

Ans: B

73. A man working in a construction company presents with complaints of cough and shortness of breath. CXR shows pleural plaques. Most likely the cause is?

- a. Silicosis
- b. Pneumoconiosis
- c. Anthracosis
- d. TB
- e. Asbestosis

Ans: E

74. Which of the following immunoglobulin is pentavalent?

- a. Ig A
- b. Ig M
- c. Ig D
- d. Ig G
- e. Ig E

Ans: B

75. A young healthy man he lifts 150 LB weight and holds it there for 5 seconds, suddenly his arms give way and drops the weight to the floor. Which of the following receptors is responsible for this sudden muscle relaxation?

- a. Free Nerve Ending
- b. Nociceptor
- c. Ruffini receptor
- d. Golgi Tendon Organ
- e. Pacinian Corpuscle

Ans: D

76. True regarding meiotic division is?
- a. Prophase is longest
 - b. Anaphase is same as mitosis
 - c. Chromosomes arranged at random in metaphase
 - d. Chiasmata in telophase

Ans: A

77. Oral submucosal fibrosis is defined as?

- a. Metaplasia
- b. Atrophy
- c. Premalignant lesion
- d. Hypertrophy
- e. Benign

Ans: C

78. A pregnant lady presents with mitral stenosis. To prevent atrial fibrillation related complications which treatment should be given?

- a. Oral anticoagulants
- b. IV heparin
- c. IV Heparin plus oral anticoagulant
- d. Warfarin
- e. FFP

Ans: B

79. Which of the following causes decrease in physiological dead space?

- a. Fibrosis
- b. Hypertension
- c. Pulmonary edema
- d. Atelectasis
- e. Pneumothorax

Ans: D

80. Which of following intracellular substance helps in wound healing?

- a. Collagen
- b. Fibronectin
- c. Hyaluronic Acid
- d. Tyrosine Kinase

Ans: A

81. Fever in inflammation is caused by?

- a. IL-1
- b. IL-6
- c. Prostaglandin
- d. Arachidonic acid

Ans: A

82. The levels of which hormone remains normal during pregnancy?

- a. Growth hormone
- b. Estrogen
- c. LH
- d. Prolactin
- e. PTH

Ans: A

83. A patient has penetrating ulcer of the posterior wall of the first part of the duodenum. Which blood vessels is subject to erosion?

- a. Common hepatic artery
- b. Gastroduodenal artery
- c. Right gastric artery
- d. Superior mesenteric vein
- e. Anterior inferior pancreaticoduodenal artery

Ans: B

84. Which cell is primarily responsible for production of alkaline phosphatase?

- a. Fibroblast
- b. Chondroblasts
- c. Osteoclast
- d. Osteoblast
- e. Osteocyte

Ans: D

85. Lobar pneumonia leading to parapneumonic effusion. What finding will be seen in the pleural fluid?

- a. Increase lymphocytes
- b. Proteins more than 3.5gm
- c. LDH 100
- d. Specific gravity 1010

Ans: B

86. Nerve lateral to trachea is?

- a. Vagus
- b. Recurrent laryngeal
- c. Spinal root of accessory
- d. Phrenic
- e. Long thoracic nerve

Ans: A

87. HLA B27 is associated with?

- a. Rheumatoid arthritis
- b. SLE
- c. Ankylosing Spondylitis
- d. Reiter syndrome
- e. Psoriatic arthritis

Ans: C

88. Lesion in extrapyramidal tract will show which of the following?

- a. Absent cremasteric muscle reflex
- b. Positive Babinski sign
- c. Absent fine motor movement
- d. Absent abdominal wall reflex
- e. Clasp knife spasticity

Ans: E

89. A bus moving in horizontal direction stopped suddenly, man will remain steadfast by?

- a. Macule of the Sacculi
- b. Macula of the utricle
- c. Semicircular canal
- d. Semicircular ducts

Ans: B

90. Drug of choice for Amoebic Liver Abscess is?

- a. Ciprofloxacin
- b. Ceftriaxone
- c. Doxycycline
- d. Tinidazole
- e. Ceftazidime

Ans: D

91. A 10-year boy diagnosed with tapeworm infestation. The drug of choice will be?

- a. Albendazole
- b. Mebendazole
- c. Praziquantel
- d. Pyrantel pamoate
- e. Piperazine citrate

Ans: C

92. Confidence interval represents?

- a. Standard deviation plus minus mean
- b. Mean and its standard error
- c. Median and its range
- d. Mode and its standard deviation

Ans: B

93. Vit K dependent factors are?

- a. Factor 2, 7, 9, 10
- b. Factor 1, 3, 6, 8
- c. Factor 2, 7, 9, 12
- d. Factor 3, 5, 7, 9

Ans: A

94. If a foot is permanently dorsiflexed and everted. Which nerve is most likely damaged?

- a. Common peroneal
- b. Deep peroneal

- c. Superficial peroneal nerve
- d. Tibial nerve
- e. Obturator nerve

Ans: D

95. In wrist drop, which of the following nerve is damaged?

- a. Median nerve
- b. Ulnar nerve
- c. Musculocutaneous
- d. Lower trunk lesion
- e. Radial nerve

Ans: E

96. Which of the following drug increases chronotropic and inotropic effect of the heart?

- a. Digoxin
- b. Glucagon
- c. Amiodarone
- d. Calcium chloride
- e. Phenylephrine

Ans: B

97. After partial hepatic resection, which cells are responsible for regrowth?

- a. Hepatic Derived Growth Factor
- b. VEGF
- c. TGF alpha
- d. IL 6
- e. Epidermal stem cells

Ans: A

98. A known diabetic for 15 years complains of decrease vision. O/E white spots and exudates are seen on the retina. The most likely diagnosis is?

- a. Central retinal artery occlusion
- b. Central retinal vein occlusion
- c. Diabetes
- d. Hypertension
- e. Lipid storage disease

Ans: B

99. Percussion of the posterior aspect of the chest along the scapular line in sitting position resonates most likely till which rib?

- a. 6th rib
- b. 8th rib
- c. 7th rib
- d. 5th rib
- e. 10th rib

Ans: E

100. A patient who had kidney transplantation develops cyanosis and organ failure within 10 minutes. What is the likely etiology?

- a. Cytotoxic T cell rejection
- b. Graft versus Host disease
- c. Non immune vascular disease
- d. Antibody mediated rejection
- e. Type 1V hypersensitivity

Ans: D

101. Regarding QRS complex on ECG, which is true?

- a. Occurs due to Ventricular systole
- b. Occurs due to Ventricular diastole
- c. Occurs due to Ventricular depolarization
- d. Occurs during Ventricular depolarization
- e. Atrial systole

Ans: C

102. The type of hypersensitivity involved is after TB vaccine given is?

- a. Type 3
- b. Type 4
- c. Type 1
- d. Type 2

Ans: B

103. Cardiac muscle cannot be tetanized due to?

- a. AV nodal delay
- b. Action potential with a plateau
- c. Short refractory period
- d. Gap junction
- e. Long refractory period

Ans: E

104. Antibodies against calcium channels occur in?

- a. Hypoparathyroidism
- b. Lambert Eaton syndrome
- c. Myasthenia Gravis
- d. Rheumatoid arthritis

Ans: B

105. Which of the following property of Purkinje system contribute for its highest speed of conduction?

- a. Myelination
- b. Scanty gap junctions
- c. Increased diameter

- d. Thickness of fiber
- e. Increased number of myofibrils

Ans: C

106. Intention tremors occur due to lesion in?

- a. Cerebellum
- b. Internal Capsule
- c. Basal ganglia
- d. Cerebrum
- e. Substantia nigra

Ans: A

107. Which part of limbic system is involved in emotions?

- a. Hypothalamus
- b. Internal capsule
- c. Substantia gyrus
- d. Cingulate gyrus
- e. Pineal body

Ans: D

108. The taste sensation carried to cortex passes through?

- a. Internal capsule
- b. Hypoglossal nerve
- c. Thalamus
- d. Basal ganglia

Ans: C

109. Pericytes provide support to smooth muscle of which structure?

- a. Ciliary body
- b. Blood vessels
- c. Esophagus
- d. Bones
- e. Heart

Ans: B

110. A female living at the riverside presents with a lesion on the side of her face and eye and complains of gradually increasing decrease in vision. Which of the following is likely responsible for it?

- a. Loa Loa
- b. Nectar Americanus
- c. Trichinella Spiralis
- d. Wuchereria Bancrofti
- e. Onchocerca volvulus

Ans: E

111. An African woman comes to you with swollen eyes and skin rash. O/E a small filarial worm was noticed in the eye. The organism involved likely is?

- a. Loa Loa
- b. Onchocerca volvulus
- c. Ascaris Lumbricoids
- d. Wuchereria Bancrofti

Ans: A

112. 3rd and 4th ventricles are connected through?

- a. Foramen of Monro
- b. Central canal
- c. Subarachnoid space
- d. Aqueduct of Sylvius
- e. Foramen Ovale

Ans: D

113. The total number of ATPs produced by complete breakdown of 1 glucose is?

- a. 36
- b. 38
- c. 14
- d. 20
- e. 10

Ans: B

114. Lesser sac is situated between?

- a. Aorta and stomach
- b. Pancreas and aorta
- c. Stomach and pancreas
- d. Aorta and esophagus
- e. Stomach and anterior abdominal wall

Ans: C

115. Specific dietary carcinogens of esophageal carcinoma

- a. Nitrosamine
- b. 2-naphthylamine
- c. Hydrocarbons
- d. Aryl amine
- e. Carbon

Ans: A

116. Right shift of the Oxy-Hb curve will result in decrease of which of the following?

- a. Temperature
- b. Nitric oxide
- c. 2,3 BPG
- d. PCO₂

Ans: E

117. A patient died of ischemic stroke. On autopsy study of brain, which of the following will be seen?

- a. Liquefactive necrosis
- b. Karyolysis
- c. Coagulative necrosis
- d. Fat necrosis

Ans: A

118. Growth factors at cell bring about its effects by working on receptors located at?

- a. Nucleus
- b. RER
- c. SER
- d. Nucleolus
- e. Cell Membrane

Ans: E

119. Cardiac output when divided by heart rate equals to?

- a. Stroke volume
- b. Total peripheral resistance
- c. Ejection fraction
- d. EDV
- e. Cardiac index

Ans: A

120. Sign of primary adrenal insufficiency is?

- a. Hypertension
- b. Hypokalemia
- c. Decrease ACTH
- d. Hyperkalemia
- e. Increased Cortisol

Ans: D

121. A lady fell off from a two-story building and presents to you with complains of dribbling of urine but inability to void. Damage at which root value has occurred?

- a. S1,2,3
- b. S2,3,4
- c. L2,3,4
- d. L1,2
- e. T12, L1, L2

Ans: B



122. A 2-year child presents with fever, diarrhea and pallor for 2 days. Investigation shows Hb is 5.6, MCV 107, MCHC increased. Investigation of choice shall be?

- a. Transcobalamin level
- b. Intrinsic factor antibodies
- c. Serum B12 assay
- d. RBC folate

Ans: C

123. What is the most common cause of pernicious anemia?

- a. Alcohol
- b. Iron deficiency anemia
- c. Gastrectomy
- d. Blood loss
- e. Autoimmune atrophic gastritis

Ans: E

124. A young athlete has difficulty in flexion of knee and hip. Which of the following muscles is likely paralyzed?

- a. Vastus medialis
- b. Sartorius
- c. Semitendinosus
- d. Vastus lateralis
- e. Popliteus

Ans: B

125. A large tumor in posterior mediastinum will compress which of the following structures?

- a. Descending Thoracic Aorta
- b. Arch of aorta
- c. Azygous vein
- d. Thymus
- e. Parasympathetic trunk

Ans: A

126. What is meant by professionalism of a doctor?

- a. One who is aware of recent research and advancement in field
- b. Punctual, regular and conscientious
- c. Famous among friends
- d. Politeness and good bedside manners

Ans: D

129. A known CLD patient present with upper GI bleed. Management

plan should be?

- a. IV Octreotide
- b. IV Vitamin K
- c. IV Omeprazole
- d. IV Tranexamic acid

Ans: A

130. Hematemesis in esophageal varices is due to bleeding from?

- a. Superior mesenteric vein
- b. Right Gastric Vein
- c. Azygous vein
- d. Left Gastric Vein
- e. Inferior mesenteric vein

Ans: D

131. Relation of Facial nerve after emerging from Stylomastoid foramen and approaching parotid gland?

- a. Runs between styloid and mastoid
- b. Lies superficial to parotid
- c. Lies posterior to parotid
- d. Deep to muscular aponeurotic system
- e. Posterior to anterior belly of digastric

Ans: C (it's actually Anterior to posterior belly of digastric—so if that is in option prefer that—just thinking that someone might have recalled option E incorrectly)

132. The extracellular matrix and the cytoskeleton communicate across the cell membrane through which of the following?

- a. Proteoglycans
- b. Cadherin
- c. Intermediate filaments
- d. Microtubules
- e. Integrin

Ans: E

133. Most common cause of subacute endocarditis is?

- a. Staph Aureus
- b. Staph Viridans
- c. H. influenza
- d. Strep. Bovis
- e. E. coli

Ans: B

134. A 14-year-old boy gets his finger cut by a knife. Which one of the following is primary/early mediator of acute inflammatory response in this?

- a. IL 1
- b. Bradykinin
- c. Histamine
- d. Prostaglandin
- e. Platelet aggravating factor

Ans: C

135. Osmotic diuretics act on which of the following?

- a. PCT
- b. DCT
- c. Cortical collecting tubule
- d. Thick ascending limb
- e. Glomerular filtering membrane

Ans: A

136. A child with multiple infections was diagnosed with a rare genetic diagnosis where leukocyte adhesion to endothelial cells is deficient. The likely deficiency is of which of the following?

- a. ICAM-1
- b. E-Selectin
- c. L-Selectin
- d. Integrin
- e. LFA-1 (integrin)

Ans: E (acc to few there was no option of LFA-1 then prefer integrin)

137. In Wilson disease, the most appropriate and useful investigation would be?

- a. Liver Biopsy
- b. H n S stain
- c. Serum ceruloplasmin
- d. Slit lamp examination

Ans: A (best initial test is ceruloplasmin while most accurate and useful is liver biopsy)

138. Anterior border of the lumbar triangle is formed by?

- a. Posterior border of external oblique
- b. Latissimus dorsi
- c. Internal oblique muscle
- d. Serratus anterior

Ans: A

139. Glucose is released from the liver

between meals through which process?

- a. Gluconeogenesis
- b. Glycolysis
- c. Increased peripheral uptake
- d. Lipolysis
- e. Glycogenolysis

Ans: E

140. The best advisable approach for a seropositive AIDS infection is?

- a. Repeat the test
- b. Follow up
- c. Test should be repeated by other methods to confirm
- d. Report should be correlated with history
- e. Pt should be isolated

Ans: C

141. Which investigation should be done to differentiate nevus anemicus from segmental hypomelanosis?

- a. Pin prick
- b. Wood lamp examination
- c. Diascopy
- d. Fungal scraping
- e. Starch iodine test

Ans: C

142. A 5-week pregnant lady contracted German measles. The doctor is worried about which of the common complication to be likely developed in the baby?

- a. Aortopulmonary defect
- b. Congenital cataract
- c. Deafness
- d. Mental retardation
- e. Spina bifida

Ans: B

143. A cat is decerebrated at mid collicular level. Which of the following happens?

- a. Cannot stand
- b. Hyper exaggerated flexor tone of afferent muscle spindle
- c. Does not survive
- d. Exaggerated stretch and tendon jerk reflex

Ans: D

144. Regarding adverse effect of drug, which is correct?

- a. More with therapeutic dose
- b. Less with lower dose
- c. Always present
- d. More at higher dose
- e. Variable

Ans: E

145. Most common organism causing pyogenic liver abscess?

- a. Bacteroids
- b. E. coli
- c. Salmonella
- d. Streptococcus viridans

Ans: B

146. Which of the following types of drugs will have maximum oral bioavailability?

- a. Drugs with high first-pass metabolism
- b. Highly hydrophilic drugs
- c. Largely hydrophobic, yet soluble in aqueous solutions
- d. Chemically unstable drugs
- e. Drugs that are P-glycoprotein substrates

Ans: C

147. In a healthy man, metabolic requirements exceed the blood circulation to deliver oxygen in?

- a. Heart
- b. Kidney
- c. Brain
- d. Skin
- e. Skeletal muscle

Ans: E

148. Low doses of aspirin reduce platelet aggregation and clot formation by inhibiting the production of?

- a. Adenosine diphosphate
- b. Fibrinogen
- c. Prothrombin
- d. Thromboxane A₂
- e. Thromboplastin

Ans: D

149. A young female presented with fever 101°C, gum bleeding, petechiae and epistaxis. Best test to diagnose is?

- a. CBC
- b. Bone marrow biopsy
- c. Coagulation profile
- d. CT/ BT
- e. Electrophoresis

Ans: B

150. When the hypothalamic temperature is set higher than the body temperature then which of the following will decrease?

- a. Starvation
- b. Shivering
- c. Piloerection
- d. Vasoconstriction
- e. Sweating

Ans: B

151. In adults, secondary ossification center is present in?

- a. Epiphysis
- b. Diaphysis
- c. Metaphysis
- d. Epiphyseal plate
- e. Medullary cavity

Ans: A

152. In the aortic opening if the diaphragm is constricted, which of the following structure will be compressed along with aorta?

- a. Azygous vein and vagus nerve
- b. Thoracic duct and vagus nerve
- c. Thoracic duct and azygos vein
- d. Azygos vein and both phrenic nerves
- e. Inferior vena cava

Ans: C

153. A female presented with dysphagia to liquids for the last 6 months. Laryngoscopy shows normal history of the tract. The most likely cause is?

- a. Glossopharyngeal nerve palsy
- b. Loss of Neuromuscular coordination
- c. Vagus nerve lesion
- d. Plummer Vinson syndrome
- e. Esophageal tumor

Ans: B

Glucagon secretion is increased

154. by?
- a. Free fatty acid
 - b. Exercise
 - c. Secretin
 - d. Glucose
 - e. Somatostatin

155. Lymph from greater curvature of stomach drains into which of the following node?

- a. Right gastroepiploic
- b. Splenic
- c. Inferior mesenteric
- d. Celiac
- e. Superior mesenteric

156. A thyroid mass usually moves with swallowing because the thyroid gland is enclosed by which of the following fascia?

- a. Carotid sheath
- b. Investing layer of the deep cervical fascia
- c. Pretracheal fascia
- d. Prevertebral fascia
- e. Superficial fascia

157. Blood stained CSF is caused by which of the following?

- a. Subarachnoid hemorrhage
- b. Extradural hemorrhage
- c. Subdural hemorrhage
- d. Epidural

158. In an epidemiological study of penile squamous intraepithelial neoplasia, most common association with?

- a. Balanitis xerotica obliterans
- b. Phimosis
- c. Epispadias
- d. Lichen simplex
- e. Herpes simplex

159. The parasympathetic supply of heart is via?

- a. T1-T4
- b. Superficial cardiac plexus
- c. Deep cardiac plexus

- d. T1-T5
- e. Vagus nerve

Ans: E

160. A 65-year lady treated for arthritis now presented with weakness and bruise. Examination reveal pancytopenia, 0.1% Retic count and hypocellular bone marrow with normal cell morphology. Diagnosis is?

- a. Myelofibrosis
- b. Aplastic anemia
- c. Acute leukemia
- d. Hodgkin lymphoma
- e. ITP

Ans: B

161. Fats enter the lymph in the form of?

- a. Free fatty acid
- b. Triglyceride
- c. Glycerol
- d. Chylomicron
- e. Monoglyceride

Ans: D

162. Aplastic anemia is diagnosed on?

- a. Blood counts and reticulocyte count
- b. Hb electrophoresis
- c. Bone marrow aspirate alone
- d. CBC
- e. Both Bone marrow aspirate and trephine biopsy

Ans: E

163. A 35-year pregnant lady comes with complaints of increased water intake, urination and increased thirst. Her neighbors have also mentioned to her that she has had some strange behavior changes. Lesion is present in which part of brain?

- a. Thalamus
- b. Supraoptic
- c. Cerebellum
- d. Hypothalamus
- e. Amygdala

Ans: D

164. VPL Nucleus of Thalamus injury cause which of the following?

- a. Loss of taste sensation
- b. Somatosensory loss of ipsilateral body
- c. Contralateral somatosensory lost
- d. Loss of sensation of face on contralateral side

Ans: C

165. Neuroendocrine response after surgery is due to?

- a. Hemorrhage
- b. Toxic stimuli
- c. Starvation
- d. Nociceptor afferents
- e. Intubation

Ans: A

166. A young lady of 30 years presented in eye OPD with history of fever, headache and diplopia. O/E it was found that she is having ptosis, mydriasis, anisocoria and crossed horizontal diplopia. The most likely diagnosis is?

- a. Head injury
- b. Horner syndrome
- c. Hypothyroidism
- d. Trochlear nerve damage
- e. Oculomotor nerve damage

Ans: E

167. Which of the following conditions cause hypoventilation?

- a. Anemia
- b. High altitude
- c. COPD
- d. Strenuous exercise
- e. Diabetic ketoacidosis

Ans: C

168. A 2-year old fell off the bed and develops a hematoma on forehead. Routine labs show no abnormality but the mother gives history of her brother profusely bleeding from circumcision. Next investigation done should be?

- a. Bone marrow
- b. Coagulation profile
- c. Hb electrophoresis
- d. Peripheral smear

e. CBC

Ans: B

169. A patient known case of CCF presented with shortness of breath. O/E he has basal crepts. Which one of following is the immediate drug choice?

- a. ACE inhibitor
- b. Beta Blocker
- c. CCB
- d. Thiazide
- e. Loop diuretic

Ans: E

170. A pt with low cardiac reserve is asked to perform an exercise tolerance test. Which of the following will be most likely observed?

- a. Cardiac arrhythmia due to inc HR
- b. Failure of cardiac output to rise to meet the activity demands

Ans: B

171. A child presented to OPD with 104 fever for last 4 days. He has been passing cola-colored urine for the last one day, his LFTs are deranged with increased unconjugated bilirubin and gives history of using antimalarial. Diagnosis is?

- a. G6PD
- b. Drug induced jaundice
- c. Black water fever
- d. Paroxysmal nocturnal hemoglobinuria
- e. Hemolytic uremic syndrome

Ans: A

172. The major difference between cardiac and smooth muscle is?

- a. Source of calcium
- b. Nature of contractile protein
- c. Upstroke of action potential

Ans: B

173. A patient having cardiorespiratory arrest. ABG shows pH: 6.48, HCO_3^- 10 meq/l, CO_2 : 65.7. What is the diagnosis according to ABGs?

- a. Respiratory alkalosis
- b. Respiratory acidosis with renal compensation
- c. Metabolic acidosis and respiratory acidosis
- d. Respiratory acidosis without renal compensation
- e. Metabolic acidosis

Ans: C

174. A 49-year man has a pulmonary embolism that completely blocks blood flow to his left lung. As a result, which of the following will occur?

- a. Ventilation/perfusion ratio in the left lung will be zero
- b. Systemic arterial pO_2 will be elevated
- c. V/Q ratio in the left lung will be lower than right lung
- d. Alveolar pO_2 in the left lung will be approximately equal to the pO_2 in the inspired air
- e. Alveolar pO_2 in the right lung will be approximately equal to the pO_2 in venous blood

Ans: D

175. Long term control of blood pressure is regulated by?

- a. Renin
- b. Vasopressin
- c. Antidiuretic hormone
- d. Baroreceptors
- e. Renin angiotensin system

Ans: E

176. Hepatocytes are derived from which layer?

- a. Mesoderm
- b. Endoderm
- c. Ectoderm
- d. Notochord

Ans: B

177. Parotid gland swelling is found in a patient on examination. On investigating stones in duct are found. The atrophic changes are due

to?

- a. Degeneration
- b. Ischemia
- c. Infarction
- d. Apoptosis
- e. Hyperplasia

Ans: D

178. A man develops right sided weakness in both upper and lower limb and slight deviation of angle of mouth to the left while talking. Where is the lesion?

- a. Cerebral cortex
- b. Medulla
- c. Internal capsule
- d. Midbrain
- e. Pons

Ans: C

179. In right shift of oxygen dissociation curve, the most likely value of P_{50} would be?

- a. 35
- b. 20
- c. 18
- d. 26
- e. 10

Ans: A

180. AIDS principally infects which of the following?

- a. T8 lymphocytes
- b. All lymphocyte
- c. Activated B Cell
- d. Cytotoxic T Cell
- e. T4 lymphocytes

Ans: E

181. Thoracic duct drain into?

- a. Inferior vena cava
- b. Right internal jugular
- c. Right brachiocephalic
- d. Left brachiocephalic
- e. Junction of left subclavian and internal jugular vein

Ans: E

182. Transverse colon is posteriorly related to?

- a. Spleen
- b. Lesser omentum
- c. 2nd part of duodenum
- d. Kidney

Ans: C

183. Superior rectal artery is a branch of?

- a. Superior mesenteric artery
- b. Inferior mesenteric artery
- c. Pudendal artery
- d. Internal iliac artery
- e. Femoral artery

Ans: B

184. CVP is increased by?

- a. Decrease heart rate
- b. Decrease blood volume
- c. Increase venous compliance
- d. Increase total peripheral resistance
- e. Increase blood pressure

Ans: D

185. Pregnant lady comes for her 3rd antenatal visit taking ferrous sulphate only. Which of following will she be deficient of?

- a. Vit A
- b. Vit B
- c. Vit D
- d. Folic acid
- e. Vit K

Ans: D

186. A patient with aspiration pneumonia develops chest pain with dullness on percussion in area medial to the medial border of scapula on elevation of arm. Which part of lung is most likely to be affected?

- a. Right medial basal lobe
- b. Right superior lobe
- c. Right posterior basal lobe
- d. Left lower lobe
- e. Right apical lobe

Ans: E (medial border of scapula on elevation of arm corresponds to oblique fissure of right apical lobe)

187. A pt with lacerated wound on thigh 1 weeks before presented now with foul smelly discharge from wound. O/E he was hypotensive, tachycardiac and febrile. What is the likely diagnosis?

- a. Cardiogenic shock
- b. Toxic shock
- c. Vasovagal shock

d. Neurogenic shock

Ans: B

188. Which of the following is a part of basal ganglia?

- a. Substantia nigra
- b. Thalamus
- c. Caudate nucleus
- d. Red nucleus

Ans: C

189. Gas gangrene is caused by which of the following organism?

- a. Clostridium botulinum
- b. Clostridium tetanus
- c. Clostridium bifermentans
- d. Clostridium welchii
- e. Clostridium histolyticum

Ans: D

190. Regarding Skeletal muscle, which is correct?

- a. Intercalated disc present
- b. Involuntary
- c. Innervated by somatic nervous system
- d. Non striated

Ans: C

191. In dehydration, increase plasma concentration of all except?

- a. ANP
- b. Aldosterone
- c. Angiotensin
- d. ADH

Ans: A

17th September 2019 Medicine Night Shift

1. A kid presented with short stature, protruded tongue, muscles and joints hyper-flexibility, and upward slanting of epicanthal fold. Which chromosomal abnormality best describes this condition?

- a. Trisomy 21
- b. Trisomy 13
- c. Trisomy 18
- d. Robertsonian translocation
- e. Trisomy 15

Ans: A

17th September 2019

Medicine Night Shift

1. A kid presented with short stature, protruded tongue, muscles and joints hyper-flexibility, and upward slanting of epicanthal fold. Which chromosomal abnormality best describes this condition?
- a. Trisomy 21
 - b. Trisomy 13
 - c. Trisomy 18
 - d. Robertsonian translocation
 - e. Trisomy 15

Ans: A

2. Blockage of thoracic duct causes?
- Pleural effusion
 - Pericarditis
 - Hemopericardium
 - Chylopericardium**
 - Increased CVP

Ans: D

3. A known HTN lady presented with severe headache, vomiting and raised ICP. On lumbar puncture, the CSF was blood stained. What is the most likely cause?
- Subdural hemorrhage
 - Extradural hemorrhage
 - Subarachnoid hemorrhage**
 - Injury during procedure

Ans: C

4. Which of the following structure pass through the posterior diaphragmatic opening?

- Esophagus and vagus**
- Vena cava
- Hemiazygous, esophagus & vagus
- Splanchnic vessels
- Aorta, azygous, thoracic duct

Ans: A (posterior diaphragmatic opening refers to Oesophagus opening)

5. A man presented with a dark colored nodule with irregularity on the dorsum of his right hand. O/E axillary lymph nodes were palpable. The most likely cause is?

- Latex glove allergy
- Exposure to UV light**
- Previous job related asbestos exposure
- Smoking
- Silica exposure

Ans: B

6. Basic mechanism involved in aqueous humor production?

- Active secretion and Ultrafiltration
- Passive Chloride absorption
- Active sodium secretion**
- Glucose diffusion
- Water secretion by simple diffusion

Ans: C

7. The most likely cause of a negative

Mantoux test in a TB would be due to?

- Steroid therapy
- Miliary TB
- Taking ATT drugs
- Immunosuppressive therapy**

Ans: D (D>A)

8. Pulse pressure increases in which condition?

- Tachycardia
- Heart failure
- Thyrotoxicosis**
- Hyperthyroidism
- Myocardial infarction

Ans: C

9. Keeping end diastolic length constant, how can the cardiac output be increased?

- By increasing venous return
- By increasing heart rate**
- By decreasing heart rate
- By increasing pulse pressure

Ans: B

10. Which of the following drug is used to prevent tachy-dysarrhythmias in patient with Wolf Parkinson white syndrome?

- Ketamine
- Galantamine
- Droperidol**
- Pancuronium
- Meperidine

Ans: C

11. ABGs of a patient shows pH 7.32, pCO₂ 50, HCO₃ 25. Diagnosis is?

- Respiratory acidosis without renal compensation**
- Respiratory acidosis
- Metabolic acidosis
- Respiratory alkalosis

Ans: A

12. A young patient with GFR less than 50% and decreased urine output. An increase in the levels of which of the following will be alarming?

- Urea
- Creatinine
- Phosphorus
- Magnesium
- Potassium**

Ans: E

13. The Gut-Brain stimulation for Myenteric plexus through which hormone?

- GABA
- Epinephrine
- Acetylcholine
- Somatostatin

Ans: C

14. Shift to left of the h₂ curve is due to?

- Bohr effect
- Haldane effect
- Fick Law
- Chloride Shift

Ans: B

15. Internal jugular vein after emerging through jugular foramen has its immediate **anterior relation** to which of the following?

- Carotid sheath
- Vagus nerve
- Spinal part of accessory nerve
- Internal carotid artery
- Hypoglossal nerve

Ans: D

16. Location of olfactory cortex is at?

- Anterior perforated substance
- Calcarine sulcus
- Hypothalamus
- Lateral olfactory area
- Inferior temporal lobe

Ans: E (if **Uncus** is in option prefer that)

17. A 55-year female presents with 4 months' history of **blurring of vision** and **itching on both the eyes**. She also complains of **dysphagia** and **dryness of mouth**. O/E she has **B/L parotid swelling** and **fibroid mouth fissures**. CXR shows **pneumonitis**. The most likely diagnosis is?

- Progressive scleroderma
- Mikulicz syndrome
- Sjogren syndrome
- Polymyositis
- Polyarteritis nodosa

Ans: C

18. In which of the following conditions, **atrial repolarization** is evident on ECG?

- 1st degree heart block
- MI

- Deep inspiration
- 3rd degree heart block
- QT syndrome

Ans: D

19. Cretinism differs from dwarfism in?

- Severe mental backwardness
- Trisomy 13
- Growth retardation
- Protruded tongue

Ans: A

20. The conducting system of the heart lies in?

- Epicardium
- Endocardium
- Sub endocardium
- Myocardium
- Sub epicardium

Ans: C

21. Which virus has an association with Burkitt lymphoma?

- Parvovirus B19
- HIV
- Rotavirus
- Haemophilus
- EBV

Ans: E

22. The drug of choice for severe clostridium difficile infection is?

- Amoxicillin
- Metronidazole
- Tetracycline
- Vancomycin
- Ceftriaxone

Ans: D

23. Most common skin tumor associated with HIV is?

- Kaposi sarcoma
- Squamous cell carcinoma
- Basal cell carcinoma
- Malignant lymphoma
- Glomus tumor

Ans: A

24. Which of the following is an elongated airway with dense abundant alveoli?

- Alveolar sac
- Alveolar duct
- Respiratory bronchiole
- Terminal bronchiole

Ans: B

25. Phagocytosis is initiated by?
- Lysosomal degradation
 - Attachment to cell wall
 - C3b**
 - Attachment to cell membrane
 - C5a

Ans: C

26. Enzymes act by?
- Increasing pH
 - Increasing temperature
 - No change in activation energy
 - Decreasing the activation energy**

Ans: D

27. Which of the following cells participate in the induration in Mantoux test?
- T lymphocytes**
 - Macrophages
 - Neutrophils
 - Plasma cells
 - Eosinophils

Ans: A

28. Regarding articular cartilage:
- Belongs to category of elastic cartilage
 - Can easily repair after injury
 - Cells orderly arranged in column
 - Covered by perichondrium
 - On epiphysis of long bones in synovial joints**

Ans: E

29. In a pregnant lady, to diagnose early open neural tube defect which one of the following is used for screening?
- Amniocentesis
 - Ultrasound**
 - Chorionic villus sampling
 - B-HCG
 - X-ray abdomen

Ans: B

30. Which of the following is not safe in pregnancy?
- Pyrazinamide
 - Ethambutol
 - Rifampicin
 - Isoniazid
 - Streptomycin**

Ans: E

31. Posterior lobe of pituitary gland

- develops from? **Ne**
- Neural crest
 - Telencephalon
 - Diencephalon**
 - Mesencephalon

Ans: C

32. Hypervitaminosis A causes?
- Retinal detachment
 - Jaundice
 - Muscle tonicity
 - Scaly dermatitis**
 - Blindness

Ans: D (Ref First aid, topic Vitamin A, pg. 62, edition 2017)

33. The half-life of a drug is 10 hours which is given in a continuous infusion. The steady state reached in how many hours?
- 40
 - 20
 - 60**
 - 30
 - 10

Ans: C (The rule of thumb is that steady state will be achieved after 5 half-lives—so 50 would have been a better option but as 50 is not there—few books states 6 half-lives as well so acc to option I am with 6 hours which makes it 60)

34. Which of the following test is used to differentiate between the types of jaundice?
- Total protein
 - ALT
 - GGT**
 - Total bilirubin

Ans: C

35. A young boy with complains of facial asymmetry, drooling of saliva from mouth and inability to close his eyes. The history prevails chronic nasopharyngeal sinusitis. What is the most likely cause?
- H. Influenza
 - Corynebacteria diphtheria**
 - Herpes simplex virus
 - Campylobacter
 - E. coli

Ans: B

36. Deep inguinal ring is a defect in?

- Transversalis fascia
- External oblique
- Internal oblique
- Transverse abdominis

Ans: A

37. Rickets is caused due to deficiency of?

- Calcium
- Vit A
- Zinc
- Vit D

Ans: D

38. A 36 yr. old athlete who works out excessively. During her exercise increase water loss will be through?

- Sweating
- Insensible loss
- GIT
- Lungs
- Urine

Ans: A

39. Regarding extensive Crohns disease, which is true?

- Rarely involve ileum
- Hyperoxaluria
- Surgical resection is the management
- Hypercalcemia
- Hyperkalemia

Ans: C

40. A pharmaceutical company offer a trip to foreign country with family, and says there is a discussion panel about their new product. What should a physician do?

- Ask hospital administration
- Accept the offer
- Refuse politely
- Do what your colleagues do

Ans: C

41. The most common presentation type of G6PD is?

- Acute Intravascular hemolysis
- Chronic Extravascular hemolysis
- Jaundice
- Favism

Ans: A (favism is not the common presentation only common in Mediterranean type which is not common as well)

42. A 45-year patient on digoxin therapy

for CCF develop sign and symptoms of digoxin toxicity. Blood analysis show digoxin level to be at 4 nanogram/ml. How long should digoxin (plasma half-life 36 hours) be withheld so that the plasma level fall to a safe & therapeutically effective contraction of 1 nanogram/ml?

- 48 hours
- 36 hours
- 60 hours
- 108 hours
- 72 hours

Ans: E

43. To check the status of Vit A in a community, the most cost effective method of assessing is?

- Clinical assessment
- Anthropometric
- Biochemistry
- Dietary observation

Ans: D

44. A 25-year female complains of galactorrhea and secondary amenorrhea. Her serum prolactin is 6000 with no other signs of compression. What is the likely diagnosis?

- Microprolactinoma
- Macroprolactinoma
- Pituitary adenoma
- Acromegaly
- PCOS

Ans: A

45. The presence of normal pancreatic tissue in gastric mucosa is termed as?

- Hamartoma
- Choriostoma
- Teratoma
- Adenoma
- Metaplasia

Ans: B

46. There is greatest chance of pneumothorax formation while inserting CVP via which route?

- Right subclavian
- Internal jugular
- External jugular
- Left subclavian
- Carotid artery

Ans: A

47. Long term steroid therapy has increased risk to which of the following?

- Repeated infections
- Decreased wound healing
- Bleeding
- Osteoporosis and fractures**
- Weight loss

Ans: D

48. A 2 yr. old boy brought for circumcision with history of his two cousins bleeding profusely after circumcision. The most significant blood tests finding will be?

- Normal Bleeding time
- Decrease Hb
- Increased APTT**
- Low platelet count
- Normal prothrombin time

Ans: C

49. The mechanism of metastasis is?

- Loss of E-cadherin**
- Invasion of basement membrane
- Breakage of cells
- Migration of tumor cells

Ans: A

50. Fat deposition of breast is the function of which hormone?

- Progesterone
- Prolactin
- Oxytocin
- HCG
- Estrogen**

Ans: E

51. A female with complains of wrist pain and numbness in index and ringer finger. The movement of which hand muscle will likely be effected?

- Adductor pollicis brevis**
- Abductor pollicis brevis
- Extensor pollicis brevis
- Opponens digiti minimi
- Abductor pollicis longus

Ans: A

52. The afferent component of corneal reflex is mediated by?

- Vagus nerve
- Facial nerve
- Trigeminal nerve**

- Glossopharyngeal nerve
- Hypoglossal nerve

Ans: C

53. A middle aged man died of metastatic adenocarcinoma. At autopsy his colon showed hundreds of polyps of different sizes and his father had died of the same disease. The type of polyps in the large bowel is?

- Adenomatous**
- Hamartomatous
- Hyperplastic
- Lymphoid
- Metaplastic

Ans: A

54. A 12-year girl with skin abscess. The culture report shows *S. Aureus* to be causative organism. Over the past year she had similar abscesses as well as two bouts of *Aspergillosis*. The likely explanation of her repeated infections is?

- Defective chemotactic response
- Deficiency of C5
- IgA deficiency
- Thymic hypoplasia
- Defective NADPH oxidase**

Ans: E

55. Regarding metaplasia, which is incorrect?

- Related to adaptive changes
- Occurs in epithelial cells
- Vit A can prevent metaplasia
- Can be reversed with Vit C**

Ans: D

56. A child has a laceration on lower lip and is bleeding profusely. The best way to stop bleeding is by?

- Compressing facial artery at site of its origin on the side of injury
- Compressing the angular artery at the corner of the mouth
- Compressing facial artery bilaterally at site of its origin**
- Compressing the inferior labial artery below

Ans: C

57. Regarding Smooth muscle, which is true?

- Smooth muscle arranged in myofibril
- Sustained and slow skeletal muscles are arranged in myofibril and that of smooth muscle are not
- Do not get tetanized
- Sustained and slow contraction**

Ans: D

58. Mode is?

- The most common/ repeated value in data**
- Sum of all values divided by the total number of values
- Arranged in ascending order
- Sum of all values in data

Ans: A

59. A patient develops prolongation of PT and APTT with normal platelet count after administration of antibiotic. What should be given in treatment?

- Whole blood
- Vit B12
- Cryoprecipitate
- Warfarin
- Vit K**

Ans: E

60. Lesion in dorsal column medial meniscus pathway causes?

- Dystonia
- Exaggerated reflex
- Asterognosia**
- Chorea
- Loss of tickling and itch

Ans: C

61. A pregnant lady with lower abdominal pain. On ultrasound, the placenta is attached to myometrium but does not penetrate through it. This is most likely?

- Placenta increta
- Placenta accreta**
- Placenta Previa
- Uterine rupture
- Placenta percreta

Ans: B

62. A man with history of eating pan for the past several years presented to you with a lesion in the buccal cavity.

O/E there was restricted opening of the oral cavity. What is the most likely cause?

- Keratitis
- Leukoplakia
- Candidiasis
- Submucosal fibrosis**
- Erythroplakia

Ans: D

63. A previously alcoholic person develops cirrhosis. With no recent history of alcohol consumption, the patient is yet at risk of?

- HCC**
- Esophageal varices
- Hepatitis
- HIV
- Hemangioma

Ans: A

64. A Rh -ve women with rising titre of anti D antibody was delivered at 34 weeks of pregnancy. The male baby was lethargic, pale, edematous and severely anemic. He died 6 hours after blood transfusion. The post mortem report will show?

- Severe cardiac malformation
- Hydrops fetalis
- Bile pigments in basal ganglia**
- Renal agenesis
- Liver dysfunction

Ans: C

65. An HIV positive patient asks if his disease will progress to symptomatic stage. Which test will be most useful?

- CD4 lymphocyte count**
- HIV antibody test
- HIV PCR
- Western blot
- CD8 ratio

Ans: A

66. Tumor of which of the following results in involvement of Submental and submandibular lymph nodes?

- Tongue**
- Cheek
- Upper lip
- Chin
- Lower lip

Ans: A

67. Stratified columnar epithelium is present in?

- Respiratory bronchioles
- Terminal bronchioles
- Esophagus
- Ducts of large salivary gland
- Tongue

Ans: D

68. Regarding parasympathetic stimulation, which is correct?

- Decrease PR interval
- Increase PR interval
- Decrease QRS interval
- Bundle branch block
- Heart block

Ans: B

69. A woman, P⁰⁺³ pregnant is prescribes aspirin by her doctor. The beneficial effects if aspirin occurs via?

- COX inhibition
- Anti-inflammatory effects
- Glycoprotein 2A/3B inhibition
- Pain relieve
- Factor 10 inhibitor

Ans: A

70. Which drug increases the esophageal sphincter tone and gastrointestinal motility?

- Ondansetron
- Cimetidine
- Ranitidine
- Omeprazole
- Metoclopramide

Ans: E

71. What is the role of giving somatostatin in pancreatic fistula?

- Decreases enzyme production
- Decreases HCO₃ production
- Decreases secretion
- Decreases sensation

Ans: C

72. A diabetic lady wants to lose weight. The most suitable drug to start her on would be?

- Glimepiride
- Insulin
- Glibenclamide
- Metformin

Ans: D

73. A 65-year lady on hormone replacement therapy gives history of her sister dying of breast cancer. She

is at increased risk of developing?

- Breast cancer
- Endometria cancer
- Thromboembolism
- Ovarian cancer
- Bladder cancer

Ans: A

74. A 55-year-old lady with mild HTN wants lifestyle modification advice for HTN control. The advice shall be?

- Salt restriction to 6g/day
- Walk 1-mile daily 4days/week
- Bike riding 30 mins 4 days/week

Ans: A X B

75. Superior rectal artery is a branch of?

- Internal pudendal artery
- Superior mesenteric artery
- Inferior mesenteric artery
- Middle celiac artery
- External iliac artery

Ans: C

76. In cells, the enzyme Oxidases are present in?

- Cytoplasm
- Golgi apparatus
- Lysosomes
- Peroxisomes
- Mitochondria

Ans: D

77. The initial drug of choice treatment of influenza virus is?

- Ribavirin
- Erythromycin
- Rimantadine
- Oseltamivir

Ans: D

78. A patient after leg fracture got cast over his leg for the past 2 weeks presents now with a strange observation that the size of gastrocnemius muscle of that side has been decreased. What could likely be the cause?

- Blood supply of that muscle compressed due to caste
- Temporary decrease of actin and myosin
- Progressive denervation of muscle
- Decrease muscle caliber

Ans: B

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79. Max bioavailability of drug is via which route?

- a. I/M
- b. Subcutaneous
- c. Rectal
- d. Sublingual

Ans: D

80. Best marker of MI is?

- a. CKMB
- b. Trop I
- c. LHD
- d. Myoglobin
- e. Trop T

Ans: B

81. A man had MI and died after 6 days. On autopsy, histological features show which of the following?

- a. Lymphocyte
- b. Macrophages
- c. Plasma cells
- d. Basophils
- e. Neutrophils

Ans: B

82. A child is born with cataract. Which of the following would have affected his mother during pregnancy?

- a. H. Influenza
- b. Diabetes
- c. Rubella
- d. Syphilis

Ans: C

83. In which part of the kidney does 60-80% of the filtered water gets reabsorbed within 24 hours?

- a. DCT
- b. In collecting tubules and ducts
- c. Thin ascending limb
- d. PCT
- e. Thick ascending limb

Ans: D

84. Negative free water loss occurs in?

- a. SIADH
- b. Nephrogenic diabetes insipidus
- c. Central DI
- d. Glomerulonephritis
- e. Hyperaldosteronism

Ans: A

85. Blood is warmed up to 37 degrees before massive transfusion:

- a. To decrease infection

- b. To avoid reaction
- c. To decrease O2 affinity
- d. Left to right shift

Ans: B

86. A 22yrs old woman is admitted to hospital after falling from a tree. Radiographic examination reveals fractured hook of hamate bone. Which of the following nerves will most likely be injured?

- a. Median
- b. Recurrent median
- c. Radial
- d. Posterior interosseous
- e. Ulnar

Ans: E

87. Eosinophils increase in which of the following conditions?

- a. Bacteria
- b. Fungal
- c. Parasitic
- d. Viral
- e. Mycobacterium

Ans: C

88. If CO2 production rate is kept constant and ventilation is reduced to one half, then?

- a. po2 half
- b. pCO2 double
- c. pco2 will increase by 16 times
- d. po2 double
- e. pco2 decrease by half

Ans: B

89. Nerve supply to adrenal medulla is from?

- a. Preganglionic greater splanchnic nerve
- b. Superior mesenteric plexus
- c. Inferior mesenteric plexus
- d. Post ganglion Renal and cardiac plexus
- e. Post ganglion celiac plexus

Ans: A

90. A young intolerant diagnosis. Which confirms?

- a.
- b.
- c.
- d.
- e.

Ans: D

91. A fever of cold and non-infectious diagnosis.

Ans: E

92. It

Ans: 93.

Ans: 94.

90. A young woman with goiter, cold intolerance, weight gain was diagnosed as Hashimoto thyroiditis. Which test should be done for confirmation?

- Fine needle aspiration
- TSH
- T3, T4, TSH
- Antimicrosomal and anti-thyroglobulin antibodies
- Human specific TSH receptor binding immunoglobulins

Ans: D

91. A female came to ER with complains of chest pain, dysphagia, vomiting and difficulty in belching. ECG normal and CXR shows air fluid level in esophagus. What is the likely diagnosis?

- Diffuse esophageal spasm
- Esophageal Achalasia
- GERD
- Esophagitis

Ans: B

92. Itching will stimulate?

- Dorsal column
- Touch receptors
- C fibers
- A-alpha
- B type fibers

Ans: C

93. Which of the following has the most common association with urothelial cancer?

- Bladder extrophy
- Horseshoe kidney
- Medullary sponge kidney
- Polycystic kidney

Ans: A

94. A 8-year boy is presented with high grade fever associated with chills and severe headache. He also complains of nausea, vomiting and abdominal pain episodes since 5 days. O/E he was febrile and had hepatosplenomegaly. The pathological organism in the blood was identified with Giemsa stain. Most likely the organism is?

- Leishmania
- Salmonella

- Trypanosome
- P. Malaria
- P. Falciparum

Ans: E

95. The venous pO₂ will be close to 70mmHg in which condition?

- Right to left shunt
- High altitude
- Left to right shunt
- Anemia
- Asthma

Ans: C

96. Which is a premalignant lesion which leads to SCC and needs EXCISION?

- Nevus
- Actinic keratosis
- Discoid lupus
- Lichen planus
- Seborrheic keratosis

Ans: B

97. Alleles are?

- Broken off gene fragments
- Dominant genes
- Identical genes at different locus
- Structural gene product
- Non identical genes at same locus

Ans: E

98. Serous cells are?

- Flat
- The nuclei are pushed to base
- Eosinophilic granules
- Basophilic granules

Ans: B

99. The term Diapedesis is related to?

- Margination
- Chemotaxis
- Leukocyte migration
- Endocytosis
- Aggregation

Ans: C

100. Baby born at 33 weeks showing microcytic hypochromic anemia with 25% hematocrit with normal saturation. What should be given?

- Erythropoietin plus formulary products containing iron
- RBC Transfusion
- Iron transfusion

Ans: A

101. Osteomyelitis of mandible is commonly caused by?

- Staphylococcus aureus
- Treponema
- Pseudomonas
- Klebsiella
- E. coli

Ans: A

102. Which of the following cause Hyperkalemia?

- Alkalosis
- Insulin administration
- Hyper aldosterone
- Strenuous exercise
- Mild transfusion reaction

Ans: D

103. Loss of inversion of foot but able to evert. Muscles damaged are?

- Extensor hallucis longus and flexor hallucis
- Tibialis anterior and extensor hallucis longus
- Tibialis anterior and Tibialis posterior
- Flexor hallucis longus
- Extensor hallucis longus

Ans: C

104. A female patient wearing revealing cloths starts talking in a seductive tone. What should the physician do next?

- Refer the patient to other doctor
- Call the nurse
- Refuse examination
- Start asking personal questions
- Leave the room

Ans: B

105. Papez circuit in the limbic system connects which of the following?

- Fornix, mammillary body and thalamus
- Mammillary body, thalamus and cingulate gyrus
- Mammillary body
- Subcortical nuclei
- Fornix, mammillary body, thalamus and cingulate gyrus

Ans: E

106. A 32-year man with schizophrenia and hx of violence and distressing

auditory hallucinations was admitted to the ward with aggressive behavior and has already smashed his room. He is refusing any oral meds. What is the single most appropriate injection?

- Flupenthixol
- Phenytoin
- Amitriptyline
- Haloperidol
- Risperidone

Ans: D

107. Insulin independent glucose uptake occurs in?

- Resting skeletal muscle
- Hypothalamus
- Exercising skeletal muscle
- Myocardium
- Adipose tissue

Ans: B (for those who are with option C—read first aid ed 2019 PAGE 324—I was myself with option C first —option C is correct— but for CPSP—first aid—first choice)

108. A 40-years male with jaundice. Liver function tests show direct bilirubin 10, ALP 1000, ALT-75, GGT 227. What is the most likely diagnosis?

- Intra hepatic Cholestasis
- Hepatic Cholestasis
- Bile duct obstruction
- Drug induced jaundice
- Extra hepatic Cholestasis

Ans: E

109. Lesion in Nucleus gracilis and cuneate will cause?

- Asterognosis
- Anesthesia
- Analgesia
- Agnosia

Ans: A

110. A naked person in a AC room with temp 21, humidity 80 percent. Heat loss will be through?

- Convection
- Respiration
- Radiation
- Radiation and conduction
- Evaporation

Ans: D

111. A young boy presents with sore throat along with fever from 6 days. O/E the Jugulo-digastric lymph node are enlarged. The most likely cause of node enlargement is?

- Parotid
- Palatine tonsil
- Pharyngeal tonsil
- Lips
- Adenoids

Ans: B

112. In hypertrophic cardiomyopathy, which of the following is present?

- Medial necrosis
- Iron deposition
- Fibrinoid necrosis
- Endocardial fibroelastosis
- Myocytes disarray

Ans: E

113. A patient with Left ventricular hypertrophy presents to you with chest pain and mild shortness of breath. O/E BP 90/70, pulse 90. What shall be given to relieve pain?

- Beta blocker
- ACE inhibitor
- Nitrates
- ARB
- Oxygen

Ans: C

114. Which of the most important factor for healing by primary intention?

- Sterilization with zinc solution
- Close approximation of edges by sutures
- Wound sterilization before closure
- Wound contraction
- Granulation tissue formation

Ans: B

115. Which of the following property of Purkinje system contribute for its highest speed of conduction?

- Scanty gap junction
- Large diameter
- Less refractory period
- Deficient myofibril
- Thin fibers

Ans: B

116. Which of the following is the intracranial branch of facial nerve?

- Temporal branch
- Cervical branch
- Styloid branch
- Buccal branch
- Nerve to stapedius

Ans: E

117. Which of the following structures passes near ligamentum arteriosum?

- Right vagus
- Left recurrent laryngeal
- Left phrenic
- Right phrenic
- Right recurrent

Ans: B

118. Ligamentum teres is a derivative of?

- Left umbilical vein
- Ductus venosus
- Ductus arteriosus
- Urachus

Ans: A

119. Liver is attached to lesser curvature of the stomach through which of the following?

- Ligamentum teres
- Hepatorenal
- Gastrohepatic ligament
- Ligamentum falciparum
- Ligamentum arteriosum

Ans: C

120. A 60-year old patient presented with meningitis. The causative agent in him is?

- N meningitis
- Staphylococci
- E. coli
- Strep pneumonia
- H. influenza

Ans: D

121. The basic metabolic function of insulin at cellular level is?

- Gluconeogenesis
- Protein synthesis
- Glycogenesis
- Lipolysis
- Entry of glucose in cells

Ans: E

122. Renal function is best estimated clinically by?

- Serum creatinine
- Inulin
- PAH
- Serum creatine
- Vit D

Ans: A

123. A female patient immobilized for the past 6 weeks develops shortness of breath. She gives history of recent MI. A triangular shaped hemorrhage was seen in lungs. Which of the following conditions is most likely the cause?

- Trousseau syndrome
- Thromboembolism
- Pregnancy
- Chronic alcohol abuse
- Hypertension

Ans: B

124. Which of the following is a part of basal ganglia?

- Sub thalamus
- Sustantia nigra
- Caudate nucleus
- Thalamus
- Hypothalamus

Ans: C

125. The most characteristic signs and symptoms of clostridium botulinum is?

- Diarrhea and vomiting
- Dysentery
- Fever
- Flaccid paralysis of respiratory muscles
- Projectile vomiting

Ans: D

126. Which of the following food items has anticancer effect?

- Chocolate
- Orange
- Cheese
- Milk
- Banana

Ans: B

127. Corpus luteum produces which hormone that maintains the pregnancy in 1st trimester?

- Progesterone
- Progesterone, Estrogen and

- Inhibin
- Estrogen and inhibin
- Progesterone and inhibin
- Estrogen

Ans: A

128. Regarding the O₂ affinity to hemoglobin, which is correct?

- Decreases with alkalosis
- Increase via increasing 2-3 DGP
- Decrease with increasing CO₂
- Increases with increasing temperature
- Decreases with hypoxia

Ans: C

129. Following are effect of parasympathetic activity, except?

- Copious secretion from glands
- Reduce heart rate
- Relax GIT sphincter
- Bronchoconstriction
- Inhibits secretin

Ans: E

130. A patient with 1-year history of shortness of breath presents with cough. O/E wheeze, hyper resonant chest, and decrease vocal fremitus. PFTs show decrease FEV₁/FVC and also decreased lung elastase. What is the cause of increased activity of neutrophil elastase?

- Nicotine
- NO
- Carbon
- Alpha 1 antitrypsin
- Silicosis

Ans: A

131. Factor 8 is produced by?

- Platelets
- Endothelium
- Hepatocyte
- Kupffer cells
- Bone marrow

Ans: B

132. Cerebellum is connected to midbrain via?

- Inferior cerebellar peduncle
- Middle cerebellar peduncle
- Superior cerebellar peduncle
- Olivocerebellar peduncle
- Superior cerebellar peduncle

Ans: E

133. A female with Anti-d antibodies positive delivered a baby at 34 weeks. New born baby anemic for which she received exchanged transfusion. After 10 days she developed diarrhea and a rash on arm spreading to body. Diagnosis?

- Delayed hemolytic reaction
- CMV
- Graft versus host disease
- Acute hemolytic reaction
- Exanthema infection

Ans: C

134. A mother with blood group "O" has a baby with "AB". Parents fear their baby got exchanged in nursery with other babies. What test can be done to confirm that the baby is theirs?

- Lyon hypothesis
- Maternal antibodies
- Pheno-Bombay typing
- Lab error of blood grouping result
- Chimerism testing

Ans: C (taken from Ref "Lange Q&A Obstetrics & Gynecology", 9th Edition - Page 42 question no 18--)

135. The most common site of spinal anesthesia is?

- Extradural
- Epidural
- Subarachnoid
- Skin
- Subdural

Ans: C

136. Cardiac muscle cannot be tetanized due to?

- Absolute or relative refractory period
- Long refractory period
- Gap junctions
- Action potential with plateau
- Property of automaticity

Ans: B

137. Which of the following hormone exhibits a relation between weight and puberty?

- ACTH
- Cortisol

- Estradiol
- Progesterone
- Leptin

Ans: E

138. Supporting cells of pars nervosa are?

- Pituicytes
- Astrocytes
- Pinealocytes
- Herring bodies
- Acidophil

Ans: A

139. What manages the levels of phosphate and calcium?

- Kidney
- PTH
- Vit D
- Calcitonin
- Thyroid

Ans: B

140. The point to point discrete movement of a painter are controlled by?

- Olivospinal tract
- Rubrospinal tract
- Bulbospinal
- Cortico-ponto-cerebellar tract
- Corticospinal tract

Ans: E

141. Which neurotransmitter is involved in transmission of pain when a finger is cut with a knife?

- Glycine
- Glutamate
- GABA
- Serotonin
- ACH

Ans: B

142. Which hormone increases in the mid luteal phase?

- Progesterone only
- Progesterone and estrogen
- LH
- FSH
- Estrogen only

Ans: A

143. A patient brought to ER in a state of shock (un-recordable BP) with heart failure. Which new drug should be given?

- a. Nor-Epinephrine
- b. Dopamine
- c. Acetylcholine
- d. Serotonin
- e. Gamma aminobutyric acid

Ans: A (this is debatable—here is a simple method which is used for shock and inotropes—this would be useful during your training as well—
If initially BP is un-recordable start with norepinephrine— as it is strong vasoconstrictor so you want all the fluid from the body to be at heart—
When BP is slightly recordable with a systolic pressure around 80— switch from norepinephrine to Dobutamine bcz now you want a vasoconstrictor plus also a good inotropic action— and the explanation goes on like when you would taper and how you would taper—also when to use double inotropic support etc. etc.)

144. The most important function of progesterone is?

- a. Alveolar duct development
- b. Decrease uterine contraction
- c. Secretory phase endometrium
- d. Proliferation of endometrium
- e. Fat deposition

Ans: D

145. Lateral aspect of the foot is supplied by which of the following nerves?

- a. Saphenous nerve
- b. Common peroneal nerve
- c. Deep peroneal nerve
- d. Superficial peroneal nerve
- e. Sural nerve

Ans: E

146. The most abundant type of cell in islets of Langerhans are?

- a. Alpha
- b. Delta
- c. Beta
- d. C-cell

Ans: C

147. Right bronchial artery is a single

artery branch of?

- a. 3rd posterior intercostal artery
- b. Descending aorta
- c. Thoracic aorta
- d. 2nd posterior intercostal artery
- e. Anterior intercostal artery

Ans: A

148. Physiological dead space decreases in which of the following?

- a. Pneumothorax
- b. Atelectasis
- c. Emphysema
- d. Pleural effusion
- e. Hypertension

Ans: B

149. A patient history of recent MI after which he develops shortness of breath upon lying and decrease urine output. O/E he has pedal edema, distended jugular pressure, basal crepitation, tender liver and shifting dullness. The most likely diagnosis is?

- a. Cirrhosis
- b. Chronic renal failure
- c. COPD
- d. Pneumothorax
- e. Congestive cardiac failure

Ans: E

150. A 30-year man gives history of sore throat with fever followed by 2 weeks of malaise. Q/E he has tender generalized lymphadenopathy. A cervical lymph biopsy is performed and microscopic examination reveals prominent germinal centers in follicles with a diffuse polyclonal hyperplasia composed of lymphocytes, plasma cells and macrophages. What is the most likely diagnosis?

- a. Hodgkin lymphoma
- b. Lymphocytic lymphoma
- c. Infectious mononucleosis
- d. HIV
- e. Brucellosis

Ans: C

151. The termin

Ans: D

152. with

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Ans: C

155. s

Ans: C

156

151. The most important feature of terminal ileum resection is?

- a. Constipation
- b. Pernicious anemia
- c. Iron deficiency anemia
- d. **Steatorrhea**

Ans: D

152. The two veins running parallel with brachial artery in the arm are?

- a. **Vena comitantes**
- b. Medium size vein
- c. Small size vein
- d. Cephalic vein
- e. Axillary vein

Ans: A

153. A man presented to OPD with complains of difficulty in walking. O/E he had brisk ankle and knee reflex but absent bicep reflex. He was diagnosed as a case of spinal cord compression. The most likely site of compression is at the level of?

- a. L1, 2, 4
- b. **C5-C6**
- c. T8-T1
- d. C3-C4
- e. C8-T1

Ans: B

154. A lady drowned in water. She was taken out and resuscitated, develops ARDS. The most likely mechanism is?

- a. Increase in lung compliance
- b. Hypoxia improve with oxygen therapy
- c. **Pulmonary interstitial edema**
- d. Oxygen causes reversal of symptoms

Ans: C

155. Regarding Bronchopulmonary segment:

- a. Supplied by primary bronchi
- b. Secondary bronchi
- c. **Aerated by tertiary bronchus**
- d. Not directly related to each other
- e. Each bronchopulmonary segment is supplied by a separate vein of its own

Ans: C

156. The most important factor for the repair of vascular endothelium is produced by?

- a. **Platelets**
- b. Leukocytes
- c. Steroids
- d. Vit A
- e. Vit C

Ans: A

157. In which layer of oral mucosa are minor salivary glands present in?

- a. Lamina Lucida
- b. Lamina rata
- c. Lamina densa
- d. **Lamina propria**
- e. Mucosa

Ans: D

158. Anti-cancer cells are?

- a. CD 4 cells and cytotoxic cells
- b. CD 8 cells
- c. **NK cells**
- d. Phagocytes
- e. Monocytes

Ans: C (C>B)

159. A 6-year Japanese boy was brought to ER with severe chest pain while playing. O/E he has severe conjunctivitis, edema of lip, he is suspected to have an aortic aneurysm. What is the probable diagnosis?

- a. Takayasu disease
- b. **Kawasaki disease**
- c. Buerger disease
- d. Poly arteritis nodosa

Ans: B

160. Mechanism of action of low dose heparin is?

- a. Antagonism of Antithrombin 3
- b. Inhibition of activated factor 12
- c. Prolongation of PT
- d. Inhibition of activated factor 1
- e. **Inhibition of activated factor 10**

Ans: E

161. Which fluid that is given in primary dehydration, initially decrease ICF and increase ECF increases total body water?

- a. **3% normal saline**
- b. Ringer Lactate
- c. 0.9% normal saline
- d. 0.45% normal saline

Ans: A

162. A patient in ER collapsed after penicillin injection. O/E he was profusely sweating and had a generalized body rash. Which antibody is involved?

- a. Ig G
- b. Ig M
- c. Ig A
- d. Ig E
- e. Ig D

Ans: D

163. During Voluntary muscle contraction:

- a. Both alpha and gamma motor neuron in ascending pathway are excited
- b. Both alpha and gamma motor neuron in descending pathway are excited
- c. Spindles are unloaded and afferent fibers stop firing
- d. The stretch reflex is suppressed
- e. Presynaptic inhibition

Ans: B

164. Extra systole will cause?

- a. Increase in pulse pressure due to increased heart rate
- b. Increase in pulse pressure due to increase peripheral resistance
- c. Decrease in pulse pressure decrease ventricular filling
- d. Increase pulse pressure due to increase stroke volume
- e. Decrease pulse pressure because decrease stroke volume

Ans: E

165. A 45-year man presents with inability to feel heat or cold on the left side of his body. On examination, there is loss of vibration, position sense, deep touch, and motor functions of the right lower limb. What is the most likely diagnosis?

- a. Tabes dorsalis
- b. Syringomyelia
- c. Right Brown Sequard syndrome
- d. Posterior cord syndrome
- e. Anterior cord syndrome

Ans: C

166. Common features of normal kidney:

- a. Podocytes in visceral layer of Bowman Capsule
- b. Slit like membrane between Macula densa and JG apparatus
- c. Cuboidal epithelium in parietal layer of Bowman capsule
- d. DCT longer than PCT
- e. Glomerulus has a single arteriole

Ans: A

167. A farmer is suffering from nasal congestion, severe cough and episodic dyspnea. On CXR the physician found a mass. His IgE and eosinophils levels are increased. It is due to?

- a. Squamous cell carcinoma
- b. Hepatocellular carcinoma
- c. Aspergillosis
- d. Lipoma
- e. Wegener granulomatosis

Ans: C

168. Right shift of Oxy-Hb Curve occurs in?

- a. Decrease temperature
- b. CO poisoning
- c. Fetal Hb
- d. Increase CO₂
- e. Decrease 2,3 DPG

Ans: D

169. In primary dehydration, ECF becomes?

- a. Hypotonic
- b. Hypertonic
- c. Isotonic
- d. No change

Ans: B

170. Parasympathetic nerves supplying the urinary bladder are?

- a. Superior mesenteric plexus
- b. Celiac plexus
- c. Pelvic splanchnic nerves
- d. Inferior mesenteric plexus

Ans: C

171. Rega

- a. T
- b. E
- c.
- d.
- e.

Ans: E

172. In r hemor

- a.
- b.
- c.
- d.

Ans: C (Re Resuscitation Volume 1 Christoph which sta hemorrha contractil resistanc

173. A

trans imm pres rigi sho 80% aro is?

Ans: A

174. an ol

Ans: A

175.

Regarding RBC function:

171. a. They have rigid walls
b. Easily fragile
c. Have a role in maintaining viscosity?
d. Swell to bursting point if placed in 0.9% saline
e. Use glycolytic enzyme to form alcohol from sugar

Ans: E

172. In response to compensatory hemorrhage, what will decrease?

- a. Cardiac contractility ↑
b. Heart rate ↑
c. Venous capacitance
d. Blood pressure

Ans: C (Ref: Trauma: Emergency Resuscitation, Perioperative Anesthesia ... Volume 1 edited by William C. Wilson, Christopher M. Grande, David B. Hoyt— which states that "primary compensation for hemorrhage is normally rising heart rate and contractility with increased peripheral resistance")

173. A patient had heart-lung transplantation and was on immunosuppressive drugs. He now presented with high grade fever, neck rigidity, +ve Kerning, CSF studies show Normal glucose, lymphocytes 80% and organisms with a halo around it. The most likely organism is?

- a. Cryptococcus Neoformans
b. EBV
c. Staph Aureus
d. Klebsiella
e. E. coli

Ans: A

174. A person has paralysis of left leg and also inability to recognize objects. Most likely the lesion is in?

- a. Middle cerebral
b. Posterior cerebral
c. Parietal lobe infarction
d. Anterior cerebral
e. Occipital lobe infarct

Ans: D

175. Facial recognition in daily life is done by which of the following parts?

- a. Parietal lobe
b. Inferior temporal lobe
c. Nucleus accumbens
d. Fusiform gyrus of temporal lobe
e. Posterior superior temporal lobe

Ans: D

176. A man living at a 12000 feet altitude with history of recent MI presents to you with B/L swelling of legs. O/E his Hb is 14 and bilateral edematous legs with bluish discoloration. What is the most likely cause?

- a. Venous thrombosis
b. Cardiopulmonary failure
c. Arterial occlusion
d. Arteriosclerosis

Ans: B

177. Abnormal metabolism of which amino acid results in formation of stone as an end product?

- a. Tryptophan
b. Glycine
c. Alanine
d. Lysine
e. Isoleucine

Ans: D (if Cystine in option prefer that)

178. Thoracic Vagotomy results in?

- a. Decrease caudal stomach peripheral peristalsis
b. Decrease secondary peristalsis
c. Dec Gastrin secretion
d. Decrease activity of migratory motor complex

Ans: C

179. Which of the following is most likely to be genetic cause of thromboembolism?

- a. Homocysteinemia
b. Antiphospholipid antibody syndrome
c. Homocystinuria

Ans: C

180. In contrast to cones, rods have?

- a. Sensitive to low intensity light
b. Adapt rapidly to darkness → cones
c. Sensitive to high intensity light → cones
d. Deficiency causes color blindness → cones

Ans: A

181. Pt with septicemia, on ventilatory support. More and more ventilatory pressure required to maintain ventilation. X-ray shows increased radio-opaque shadow. What is cause?

- Neutrophil with alveolar edema
- Intra alveolar hemorrhage
- Diffuse alveolar edema

Ans: C

182. Lesion in parietal lobe causes which of the following?

- Illusion
- Asterognosia
- Social withdrawal

Ans: B

183. One standard deviation means

- Both side of mean in normal distribution curve
- The deviation fall on the right side of the curve only
- The curve position is unaffected

Ans: A

184. A female with history of MI 5 years back was started on ACE inhibitor.

- Decrease angiotensin 2, increase arterial pressure and no change in TPR
- Increase angiotensin 2, increase arterial pressure and increase TPR
- Decrease angiotensin 2, decrease arterial pressure and decrease TPR
- Increase angiotensin 2, increase arterial pressure and decrease TPR

Ans: C

185. Short term function of aldosterone?

- Na absorption by DCT
- Decreased permeability of Na in DCT
- Increases permeability of Na and K in cortical collecting tubule
- Na and K absorption decreased in DCT
- Na reabsorption increases in

Ans: C

18th Sept Medicine

1. Dec/shorest v length in which

- Inc ven
- contra muscle
- Dec int
- Inc intr

Ans: D

2. The levels of normal during

- Growth
- Estrog
- LH
- Prola
- PTH

Ans: A

3. Diet rich in v

- Gre
- Egg
- Milk

Ans: A

4. Which Anti

- Rifa
- Stre
- Pyr
- INH
- Eth

Ans: E

5. Types of p

- And
- Gy
- Ant
- Pla

Ans: A

6. True about

- Ni
- Sl
- Be
- Be

Ans: A

Ans: C

18th September 2019

Medicine Afternoon

1. Dec/shortest ventricular muscle fiber length in which one of the following?
- Inc venous return
 - contraction of peripheral muscles
 - Dec intra thoracic pressure
 - Inc intra pericardial pressure

Ans: D

2. The levels of which hormone remains normal during pregnancy?
- Growth hormone
 - Estrogen
 - LH
 - Prolactin
 - PTH

Ans: A

3. Diet rich in vitamins
- Green vegetables
 - Egg
 - Milk

Ans: A

4. Which Anti TB drug is bacteriostatic?
- Rifampicin
 - Streptomycin
 - Pyrazinamide
 - INH
 - Ethambutol

Ans: E

5. Types of pelvis in males
- Android
 - Gynecoid
 - Anthropoid
 - Platypelloid

Ans: A

6. True about REM sleep is?
- Night mares
 - Sleep waking
 - Bed wetting
 - Benzodiazepines selectively decreases the N-REM sleep.

Ans: A

7. What segment of ECG coincide with a-wave of JVP?
- PR segment
 - PR interval
 - QRS

- Ans: B
8. Utricle hair depolarization due to
- K⁺ influx
 - Na⁺ influx
 - Ca⁺⁺ channels

- Ans: A
9. Patient present with heart rate of 25 and wide QRS complex, where is the pacemaker located?
- SA node
 - AV node
 - Papillary muscle
 - Purkinje fiber
 - Bundle of HIS

- Ans: D
10. Cell causing hindrance to regeneration of CNS
- Oligodendrocytes
 - Astrocytes
 - Schwann
 - Neuroglia

- Ans: A
11. Cardiac output when divided by heart rate equals to?
- Stroke volume
 - Total peripheral resistance
 - Ejection fraction
 - EDV
 - Cardiac index

- Ans: A
12. Pain from the meninges of middle cranial fossa by?
- Trigeminal ganglion
 - Facial nucleus
 - Vagus nucleus
 - Oculomotor

- Ans: A
13. Most common or infection after **Hepatitis**
- CMV
 - hepatitis virus
 - Herpes zoster
 - None

- Ans: B
14. Know the difference Most common post transfusion is hepatitis—if asked specifically then Hep B

- ✓ Most dangerous/Lethal post transfusion is CMV

14. Increase in PRC occurs if
- Elastic recoil vanishes
 - Chest wall neither moved outwards or inwards
 - Decrease resistance to respiration

- Ans: A
15. Which of the following is the earliest sign of Vit A deficiency?
- Night blindness
 - Conjunctival xerosis
 - Bitot spot

- Ans: B (night blindness is a symptom not a sign)

16. Loss of inversion of foot Muscles damaged are?
- Extensor hallucis longus and flexor hallucis
 - Tibialis anterior and extensor hallucis longus
 - Tibialis anterior and Tibialis posterior
 - Flexor hallucis longus
 - Extensor hallucis longus

- Ans: C
17. After dehydration, in which part of nephron the most hypotonic urine will be present?
- DCT
 - Cortical collecting ducts
 - Loop of Henle
 - Glomerular filtrate
 - PCT

- Ans: A
18. Diagnostic of granuloma?
- Epithelioid cells
 - Giant Cells
 - Monocytes

- Ans: A
19. Pt. had accident, BP less than 60. Which effect is most pronounced
- Baroreceptor
 - Peripheral chemo
 - CNS ischemic response
 - Renin angiotensin aldosterone system

- Ans: C

20. Virus cause cancer by?

- Oncogene
- RNA
- Proto oncogene
- Alteration of protein synthesis

Ans: C

21. True about fat embolism?

- Symptoms after 12 hrs
- 80% fatal
- Common cause thrombophlebitis
- Breast trauma

Ans: A

22. Regarding Warmth receptors?

- Alpha gamma
- Small receptive area
- Uniform distribution in hand and feet
- Long Receptive Field
- Adapt quickly to change in temp

Ans: D

23. Amino acid source of DNA

- Phenylalanine
- Glycine
- Histidine
- Alanine

Ans: C

24. What prevents complications regarding the intervention/procedure?

- Remain within the limits of professional competence
- Informed consent
- Humanity

Ans: A

25. Most common cause of venous thrombosis?

- Prolonged immobilization
- Protein C deficiency
- Antithrombin 3 deficiency
- Tissue damage in surgery

Ans: A

26. A student inserted needle in thoracic cavity for pleural tap at lower margin of rib which will most likely be damage

- Artery
- Nerve
- Vein

Ans: B

27. Regarding newborn

- C shaped vertebral column
- Thorax in cross section is oval
- Upper limbs not fully developed

Ans: A

28. Lymph flow decreased by increase of?

- Increased arterial pressure
- Increased venous pressure
- Increased capillary permeability
- Hemorrhage

Ans: D

29. Nerve supply to adrenal medulla is from?

- Preganglionic greater splanchnic nerve
- Superior mesenteric plexus
- Inferior mesenteric
- Post ganglion Renal and cardiac plexus
- Post ganglion celiac plexus

Ans: A

30. Wound healing beyond original wound margins

- Contracture
- Keloid
- Dehiscence
- Bruise

Ans: B

31. Byssinosis occurs in people working in?

- Garment factory
- Lead factory
- Textile industry (cotton)
- Cement factory
- Coal factory

Ans: C

32. Regarding smooth muscles:

- Forms myofibrils
- Somatic innervation
- Cardiac muscle is a specialized type of smooth muscle
- Has layers of circular and longitudinal muscle
- Peak of action potential rises with increase sodium influx

Ans: D

33. Function exclusive to liver:
- Glycogen degradation
 - Urea production**
 - Gluconeogenesis

- Ans: B
34. Amoebic liver abscess investigation?
- Serology**
 - CT scan
 - Immunological test

- Ans: A
35. The roof of the anterior horn of the lateral ventricle is formed by?
- Genu of corpus callosum
 - Head of corpus callosum
 - Rostrum of corpus callosum
 - Body of corpus callosum**
 - Superior surface of thalamus

- Ans: D
36. Immediate mediator of allergic reaction
- Histamine**
 - Basophils
 - Neutrophils

Ans: A (remember Mediators of chronic allergic rhinitis is eosinophils)

37. A young boy had fracture osseous tissue. After some months he presents with a mass containing hemorrhage. This is most likely:
- Metaplasia**
 - Dysplasia
 - Anaplasia
 - Metastatic calcification

Ans: A

38. Feature of dysplasia?
- Mitotic figures
 - Pleomorphism
 - Loss of polarity and architecture**
 - Dyskeratosis

Ans: C

39. Right supra renal vein drains into?
- IVC**
 - Right renal vein
 - Right renal artery
 - SVC

Ans: A

40. Acrosome in spermatid is formed by?
- RER
 - Nucleus**

- Mitochondria
- Lysosomes
- Golgi bodies**

Ans: E

41. Trauma to one kidney without the perforation of Gerotas fascia, the blood goes to?
- Inferiorly to the pelvis**
 - From one kidney to another
 - Lateral diaphragm
 - Up to the diaphragm

Ans: A

42. Superficial cardiac plexus are made by
- Left vagus**
 - Right vagus
 - Phrenic nerve

Ans: A

43. Thyroid gland is enclosed by which of the following fascia?
- Carotid sheath
 - Investing layer of the deep cervical fascia
 - Prevertebral fascia
 - Vertebral fascia
 - Pretracheal fascia**

Ans: E

44. Most likely regarding iron absorption?
- Ferric form readily absorbed from ferrous
 - Most absorption occur in distal ileum
 - Absorbed in ferrous form**
 - Absorbed more efficiently if there is no deficiency

Ans: C

45. The oocyte released during ovulation is called?
- Primary oocyte
 - Tertiary oocyte
 - Primordial follicle
 - Secondary oocyte**
 - Mature oocyte

Ans: D

46. Total volume of ICF in 70kg adult man

a. 14 Liters
b. 18 Liters
c. 22 Liters
d. **28 Liters**

Ans: D

47. A female has problem of concentrated urine kidney secretes hyperosmotic urine decrease water content in

a. PCT
b. Ascending limb
c. Loop of Henle
d. **DCT**

Ans: D

48. Regarding multi-unit smooth muscle?

a. More gap junctions
b. **Tonic contractions**

Ans: B

49. Baby born with a sac like defect in the lumbosacral region with neural tissue in it, diagnosis?

a. Myeloschisis
b. **Myelomeningocele**
c. Meningocele
d. Spina bifida Occulta

Ans: B

50. Correct pairing of reflex?

a. Triceps- C7, C8
b. **Biceps - C5, C6**
c. Knee- L4-L5
d. Achilles- S2 S3
e. Cremasteric: L5, S1

Ans: B

51. Most radiosensitive tumor structure?

a. Ovaries
b. **Lymph node**
c. Breast
d. Bone

Ans: B

52. Delayed Cell mediated immunity require

a. **IL-12**
b. IL-1
c. IL-3

Ans: A

53. Lesion in dorsal column medial

meniscus pathway causes?

a. Dystonia
b. Exaggerated reflex
c. **Asterognosis**
d. Chorea
e. Loss of tickling and itch

Ans: C

54. Drug absorbed through aqueous diffusion

a. **Diazepam 2.7**
b. Phenobarbitone 2.0
c. Chloramphenicol
d. Digoxin 1.26

Ans: A (ref: pharmacology and pharmacokinetics by mark tomlini-page 14, depends on log P value, greater the value greater the absorption - P value for diazepam is 2.7 while for Phenobarbitone is 2.0, digoxin 1.26)

55. Shortest acting benzodiazepine

a. Alprazolam
b. Temazepam
c. Diazepam
d. **Midazolam**

Ans: D

56. Type of cell with no basement membrane

a. **Ependyma**
b. Transitional epithelium
c. Mesothelium

Ans: A

57. Arachnoid granulations maximum drainage into

a. **Superior Sagittal sinus**
b. Coronary sinus
c. Straight sinus
d. Transverse sinus
e. Inferior Sagittal sinus

Ans: A

58. Deficiency of which of the following enzyme result in prostate atrophy

a. 17, 20 lyase
b. 17 alpha reductase
c. **5 alpha reductase**

Ans: C

59. Person with common cold along with mild chest pain and breathing problem. Diagnosed with early stage of pulmonary anthrax infection. Drug of choice is?

a. Nalidixic acid
b. Penicillin
c. Ciprofloxacin

Ans: C

60. Metastasis occurs due to?

a. Migration of malignant cells
b. Degradation of extracellular matrix
c. Degradation of E-cadherin
d. Loss of attachment of tumor cells with each other

Ans: C

61. Which molecule best helps in transient adhesion of WBC to endothelium?

a. Integrin
b. Connexins
c. Selectin
d. Inhibin
e. Fibrin

Ans: C

62. Female with dry eye and dry mouth

a. Sjogren syndrome
b. Diabetes
c. Systemic sclerosis

Ans: A

63. A female pt developed proximal symmetrical muscle weakness, power of 3/5 and Anti-Jo Antibodies were positive. What other feature is most likely associated with it?

a. Arthralgia
b. Arthritis
c. Skin Rash
d. Cardiac failure

Ans: B

64. A young male has azospermia. Which initial investigation will help in diagnosis?

a. Testosterone level
b. FSH level
c. Sperm count
d. FSH and LH level
e. Antibodies against sperms

Ans: D

65. Patient with muscular weakness and ptosis. X-ray shows a mass. Cause is?

a. Antibodies against ACh
b. Anti-smooth muscle antibody

Ans: A

66. Ligament that prevents anterior dislocation of femur on tibia

a. Anterior cruciate
b. Posterior cruciate
c. Denticulate ligament

Ans: B

67. Which of the following is most affected by action of beta 2 adrenergic?

a. Vasodilation
b. Glycogenolysis
c. Pupil constriction
d. Intestinal relaxation
e. Vasoconstriction

Ans: B

68. Most appropriated antibodies sequence in diagnosis of multiple myeloma?

a. IgA 0.3%, IgM 2%, IgG 16%
b. IgA 15%, IgM 18%, IgG 23%
c. IgA 0.3%, IgM 0.7%, IgG 13%
d. IgA 0.8%, IgM 12%, IgG <15%

Ans: B

69. True about normal adult hemoglobin contains

a. HbA2 90%
b. HbA2 1%
c. HbA1 10%
d. HbA2 3%
e. HbF 100%

Ans: D

70. Longest Pro-Erythrocyte Stage

a. P. Falciparum
b. P. Malariae
c. P. Vivax
d. P. Ovale

Ans: B

71. A Woman delivered baby in village. Her platelet count was 30×10^9 and TLC raised with raised PT and APTT. Diagnosis?

a. Septicemia
b. PPH
c. ITP
d. DIC

Ans: D

72. Hyperkalemia compensation by kidney:

- a. Acidosis
- b. Alkalosis

Ans: B

73. Thromboxane inhibited by

- a. Prostacyclin
- b. Prostaglandin
- c. Aspirin

Ans: C

74. The most common important function of endothelium in prevention of coagulation normally is the formation of?

- a. Mast cell
- b. Mechanical barrier
- c. vWF synthesis
- d. Thromboxane A2
- e. Prostacyclin (PGI₂)

Ans: E

75. Most common skin cancer associated with HIV is?

- a. Squamous cell Ca
- b. Kaposi sarcoma
- c. Malignant melanoma
- d. Basal cell Ca

Ans: B

76. A pt HIV positive for 10 years presents with abdominal obstruction and pain, scan shows grey white mass which is resected and shows infiltrating and invading tumor most likely

- a. B cell lymphoma
- b. Plasmacytoma
- c. Hodgkin's lymphoma
- d. Metastatic adenocarcinoma

Ans: A

77. Drug of choice for Bee sting, swollen face

- a. I/M adrenaline
- b. Hydrocortisone
- c. Dexamethasone

Ans: A

78. Macrophages are derived from

- a. Monocytes
- b. Neutrophils
- c. Lymphocytes
- d. Basophils

Ans: A

79. At the Apex of lung, which of the following is high?

- a. V/Q
- b. Perfusion
- c. Dead space
- d. Shunting

Ans: A

80. Hypoxic pulmonary vasoconstriction in alveoli through?

- a. ATP sensing K channel
- b. O₂ sensitive K channel
- c. Na⁺ Channels

Ans: B

81. Extrinsic and intrinsic pathway of coagulation merge at?

- a. Stuart factor
- b. Thrombin factor
- c. Hageman factor

Ans: A

82. EEG waves in anesthetized patient?

- a. Decreased frequency
- b. Increased frequency
- c. Normal

Ans: A

83. LP done of a comatose pt as he had fever and neck rigidity. CSF showed increase lymphocytes while proteins and glucose normal. Diagnosis?

- a. Bacterial meningitis
- b. Fungal meningitis
- c. Tb meningitis
- d. Viral meningitis

Ans: D

84. During LP after crossing L3, L4 intra laminar space the needle touches which structure first

- a. Sub arachnoid space
- b. Epidural space
- c. Subdural space

Ans: B

85. Regarding pia mater:

- a. Extend with dura up to S2
- b. Extends into sulci and fissures of brain tissue
- c. Extends into the ventricles
- d. Extend in median sulcus

Ans: B

86. A CLD patient presenting with upper GI bleed the preferred immediate treatment is?

- Inj Octreotide
- Inj Vit K
- Formed Platelet Conc.
- Inj Transamine
- Whole blood

Ans: A

87. Truncal vagotomy often cause?

- Delays gastric emptying
- Decreased pepsin secretion
- Decreased acid secretion
- None of above

Ans: A

88. What is the mechanism of action of H₂ inhibitor/cimetidine in a female pt who is going to undergo a C-sec?

- Decrease acidity and volume of acid secretion
- Decrease acidity of stomach secretion
- Decrease volume of stomach secretion

Ans: A

89. Testicular mass with mature cells and tissues and all 3 germ layers Diagnosis?

- Teratoma
- Seminoma
- Yolk sac tumor

Ans: A

90. Nerve involved in causing Wrist drop?

- Median nerve
- Musculocutaneous nerve
- Axillary nerve
- Radial nerve
- Ulnar nerve

Ans: D

91. After chemotherapy, the tumor size regresses by?

- Metaplasia
- Hypotrophy
- Anaplasia
- Necrosis
- Apoptosis

Ans: E

92. Parotid gland swelling is found in a patient on examination. On

investigation, stones in duct are found. The gland regress due to?

- Apoptosis
- Degeneration
- Necrosis
- Infarction
- Hyperplasia

Ans: A

93. The ABGs of a pt in ICU are as follows. Ph.: 7.2, pCO₂ 60, HCO₃ 25. Diagnosis?

- Acute metabolic acidosis
- Acute respiratory acidosis
- Partially compensated respiratory acidosis
- Partially compensated metabolic acidosis
- Partially compensated metabolic alkalosis

Ans: B

94. A pt. with CO₂=44, pH= 7.30, HCO₃=19, what acid base abnormality?

- Metabolic acidosis
- Metabolic alkalosis
- Respiratory acidosis
- Respiratory alkalosis

Ans: A

95. Opening of lower esophageal sphincter mediated by?

- VIP
- Gastrin
- Somatostatin

Ans: A

96. A 35 years old female presents with 6 month Hx of fingers turning pale in cold (Raynaud's phenomenon) also having mild dyspnea with no wheeze, B/L pleural effusion, creatinine was high, urea also raised, ANA positive. What is the diagnosis?

- Discoid lupus erythematosus
- Progressive Systemic Scleroderma
- Polymyositis Dermatomyositis
- Sjogren Syndrome

Ans: B

87. Associated with HLA DR4
- Rheumatoid arthritis
 - Ankylosing Spondylitis
 - Psoriatic arthritis
 - Reactive arthritis

Ans: A

98. Patient with IDA was given iron supplements to monitor the response
- TIBC
 - Serum Iron
 - Serum ferritin

Ans: C

99. H2 blocker (cimetidine) ineffective in
- Ulcers
 - Zollinger Ellison
 - Mendelson syndrome

Ans: B

100. 20 yrs. old girl with Pheochromocytoma needs preoperative BP control. The most useful drug would be?
- Methyldopa
 - ACE inhibitors
 - Beta blocker
 - Alpha 1 & beta blocker

Ans: D

101. Boy who's very fond of junk food. Hb low. MCV 122, most likely diagnosis?
- Folate deficiency anemia
 - Iron deficiency anemia
 - Sideroblastic anemia

Ans: A

102. A 16-year-old female presents with hypertension and increasing weight. Which of the following features would be most suggestive of Cushing's syndrome rather than simple obesity?
- Hyperpigmentation
 - Buffalo hump (interscapular fat pad)
 - Pot belly
 - Amenorrhea
 - Abdominal striae

Ans: E

103. Muscle causing Hip extension without knee flexion
- Adductor Magnus
 - Semi membranous
 - Semi tendinous

Ans: None of the option seems correct, it's a poor recall—Semitendinosus, and Semimembranosus are extensors of hip and flexors of knee—while adductor magnus is adductor—only correct option is gluteus maximus if available

104. The muscle which increase the transverse and anteroposterior diameter of thorax is
- Diaphragm
 - External Intercostal
 - Innermost Intercostal
 - Internal Intercostal

Ans: B

105. Mother bring her child complaining of diarrhea and weight loss. Biopsy shows two nuclei organism which is pear shaped. Diagnosis?
- Amoeba
 - Giardiasis
 - Trichuris

Ans: B

106. Light reflex lost, accommodation present. Where is the lesion
- Pretectum
 - oculomotor nerve
 - Edinger westphal nucleus
 - Frontal eye field

Ans: A

107. Gummatous necrosis occurs in
- Syphilis
 - Sarcoidosis
 - TB

Ans: A

108. Injury to trochlear nerve cause
- Loss of downward gaze and abduction
 - Loss of downward gaze and adduction

Ans: B

109. Avulsion of phrenic nerve at its origin causes?
- Loss of respiration reflex
 - Weakening of intercostal muscles
 - Loss of sensation in central part of diaphragm
 - Unilateral paralysis of diaphragm

Ans: C

112. Superior pancreaticoduodenal artery branch of
- Gastrooduodenal
 - Superior mesenteric artery
 - Splenic artery

Ans: A

113. During lactation, ovulation is inhibited because of inhibition of GnRH by?
- Prolactin
 - Estrogen
 - Progesterone
 - FSH
 - GH

Ans: A

112. About bone
- Osteoblasts in howships lacunae
 - Appositional growth
 - ALP released by osteoclasts
 - Intramembranous ossification by cartilage model

Ans: B

113. Diabetic patient with 500 RBS, suffering from and polyuria which is due to:
- Increased glucose excretion by PCT
 - Increased glucose excretion by DCT
 - Dec reabsorption of water
 - Fixed specific gravity of urine

Ans: A

114. Prolactinoma cells
- Chromophobes
 - Acidophils
 - Basophils

Ans: B

115. Cabergoline acts on which of the following?
- D2 agonist
 - D1 agonist
 - D1 antagonist
 - D2 antagonist
 - Beta 1

Ans: A

116. The supporting cells in pars nervosa are?
- Chromophobes
 - Chromophils

- Herring bodies
- Astrocytes
- Pituicytes

Ans: E

117. Patient have Cushing's disease increased ACTH in:
- The hypophyseal portal vessels
 - Venous blood draining the posterior pituitary
 - Venous blood draining the anterior pituitary
 - Systemic arterial blood

Ans: C

118. Mitochondria is self-replicative organelle as they have
- DNA
 - Ribosomes
 - Oxysomes
 - Nucleus

Ans: A

119. MOA of digoxin?
- Block Na/Ca exchanger
 - Inc intracellular calcium
 - Increases heart rate by B2 receptors
 - Inhibits vagus nerve

Ans: B

120. Difference btw PCT and DCT is?
- PCT has extensive brush borders
 - SCT has thicker basement membrane
 - PCT has thicker basement membrane
 - Stratified squamous epithelium in PCT

Ans: A

121. Alcoholic man with large empty defects seen in liver cells are:
- Lipofuscin
 - Cholesterol
 - Fats

Ans: C

122. Glucose are absorbed in PCT by
- Primary active transport
 - Secondary active transport
 - Simple diffusion
 - Facilitated diffusion

Ans: B

123. Pregnant lady with increased frequency and burning of micturition along with high grade fever. The most probable diagnosis is?
- DM
 - Early pregnancy
 - Stone in bladder
 - Urethral stricture
 - UTI

Ans: E

124. Mesothelioma is associated with
- Asbestos
 - Vinyl chloride
 - Copper dust
 - Carbon

Ans: A

125. In small cell (oat cell) lung carcinoma which tumor marker is present?
- Para hormone related protein
 - ACTH
 - Serotonin
 - GH

Ans: B

126. Common feature of Sarcoidosis in females?
- Pleural effusion
 - Erythema nodosum
 - Hypercalcemia
 - Diabetes insipidus due to effect on posterior pituitary

Ans: B

127. Histological feature of Tuberculosis
- Caseous necrosis
 - Epithelioid cells
 - Non-caseating granulomas

Ans: A

128. A patient has fever malaise anemia weight loss for several week on examination splenomegaly and splinter hemorrhage. Which investigation help you diagnose the illness
- Blood culture
 - Serology
 - Blood for cold agglutinin
 - USG for abdomen

Ans: A

129. Known case of Rheumatic mitral stenosis develop fever, lassitude, and body ache after tooth extraction.

Doctor suspect subacute bacterial endocarditis. The most likely organism present in blood culture would be?

- Strep Fecalis
- Strep viridans
- Staph Aureus
- E. coli
- Strep pneumonia

Ans: B

130. Pathway that controls the head neck and eye movement
- Vestibulo cerebellar
 - Spinocerebellar
 - Medial longitudinal Fasciculus

Ans: C

131. Climbing purkinje fibers come from
- Medulla
 - Pons
 - Cerebrum
 - Cortex

Ans: A

132. Facial nerve avulsion at the level of mastoid.
- All facial muscle paralyzed on the same side
 - Lower face Ipsilateral
 - Upper face ipsilateral

Ans: A

133. A two year old girl present with following finding on examination. There is hx of forceps delivery. She is unable to abduct left shoulder, active flexion of left elbow and inability to supinate left arm. Most probable injury?
- Axillary nerve
 - C5 C6
 - Median nerve
 - Upper brachial plexus
 - Musculocutaneous

Ans: B

134. Diabetic with abscess, resulting in loss of shoulder movement: nerve involved
- Axillary
 - Long thoracic
 - Thoracodorsal nerve

Ans: A

135. What is the most probable location of ectopic salivary glands?
- Lips
 - Hard palate
 - Soft palate
 - Buccal vestibule

Ans: D

136. Facial pain and hyperacusis. Ganglion involved was asked.
- Geniculate
 - Trigeminal
 - Ciliary

Ans: A

137. Food stuck in vestibule, nerve affected (Poor recall—no student has uploaded this question properly, this is all what I got)
- Facial
 - Trigeminal
 - Vagus nerve

Ans: C

138. Patient presented with pain while chewing. The muscle is also tender on palpation, muscle involved is?
- Masseter
 - Anterior fiber of temporalis
 - Lateral pterygoid
 - Posterior fiber of masseter
 - Buccinator

Ans: B

139. Herring Breuer reflex is an increase in
- Duration of inspiration
 - Duration of expiration
 - Depth of inspiration

Ans: B

140. Cause of increase pulse pressure?
- Increase Stroke volume
 - Cardiac tamponade
 - Increase Venous compliance and cardiac output
 - Increase total peripheral resistance

Ans: A

141. The replacement of dead cells cannot occurs by regeneration in tissues composed of
- Labile cells
 - Stable cells
 - Permanent cells

- Stem cells
- Embryonic cells

Ans: C

142. What Decreases in hyperthyroidism
- Weight
 - Appetite
 - Heart rate

Ans: A

143. A female known case of thyrotoxicosis presented in ER with heart rate 180 b/min and ECG shows RR interval pulse. Drug of choice will be?
- Amiodarone
 - Beta blocker
 - Digoxin
 - Verapamil

Ans: B

144. Potential recorded after stimulating nerve trunk depolarization is
- After depolarization
 - After hyperpolarization
 - Peak potential
 - Compound action potential
 - Spike potential

Ans: D

145. Most common side effect of protamine
- Hypotension
 - Bleeding
 - Hypoxia
 - Anaphylaxis

Ans: A

146. Immediate effect of Local anesthesia on which fibers?
- C-Fibers
 - A-delta fibers
 - A-beta

Ans: A (Remember the sequence beta fibers > c fibers > A delta—and in last A-alpha fibers)

Ref: Neural Blockade in Clinical Anesthesia and Management of Pain, Volume 494

Edited by Michael J. Cousins, Phillip O)

147. Loss of all sensations bilaterally below lesion by

a. Complete cord transection
b. VPL nucleus lesion
c. VPM nucleus lesion
d. Hemisection of cord

Ans: A

148. Medicine likely to be given on 3rd post-operative day for moderate pain:

a. Sublingual buprenorphine
b. Morphine
c. Fentanyl
d. Ketorolac

Ans: D

149. LH acts on which of the following?

a. Leydig cell
b. Sertoli cells
c. Epididymis
d. Prostate

Ans: A

150. Spermatogenesis is stimulated by

a. FSH
b. Testosterone
c. LH
d. FSH and testosterone

Ans: D

151. One Barr body present in nuclei/cell of

a. Normal female
b. Normal male
c. Turner syndrome
d. Down syndrome

Ans: A

152. Vector for transmission of Lyme disease

a. Reduviid bug
b. Ixodes tick
c. TSE-TSE fly
d. Sand fly

Ans: B

153. A boy ate chickpeas (choley word recalled by students ☺ may be used by CPSP) from roadside develop hepatitis, which type?

a. Hepatitis A
b. Hepatitis B
c. Hepatitis C
d. Hepatitis D

Ans: A

154. A lady delivered a baby having

Hutchinson teeth which is caused by infection

a. Rubella
b. Leprosy
c. Herpes virus
d. Syphilis

Ans: D

155. In arsenic poisoning from which you take the soil of graveyard?

a. Right side
b. Left side
c. Head side
d. Any side

Ans: D (creepy question)

156. Male internal genital structure typically develops from?

a. testosterone
b. DHT
c. anti mullerian hormone

Ans: A

157. Mole for mole Na absorption is greatest by which one of the following

a. ANP
b. Aldosterone
c. Cortisol
d. Progesterone

Ans: B

158. Hypoglycemia increases?

a. SSK
b. Somatostatin
c. Gastrin
d. Glucagon
e. Secretin

Ans: D (in previously discussed papers glucagon was not in options, but in this paper recall students said glucagon was option—so choose glucagon > secretin)

159. Posterior relation of uncinate process of pancreas

a. IVC
b. SMA
c. SMV
d. Transverse colon
e. Aorta

Ans: B

Which of the following decreases blood supply to brain?

- A. I/V epinephrine
- B. Inhalation of 17%CO₂
- C. Seizures
- D. Hyperbaric O₂

Ans: D

Most common site of melanoma

- a. Soft palate
- b. Hard palate
- c. Tongue

Ans: B

A person has lost blood. He has decreased GFR and urinary output. The part of renal tubules most involved in bringing back the GFR and urinary output to the normal is

- a. Descending loop of Henle
- b. Distal convoluted tubules
- c. Proximal convoluted tubules
- d. Thick ascending loop of Henle
- e. Thin ascending loop of Henle

Ans: B

Prostate carcinoma patients shows metastatic lesion in

- a. Osteoblast
- b. Osteoclast
- c. Osteocytes

Ans: A

Most common method to detect circulating tumor cells in blood

- a. P. smear
- b. Tumor markers

Ans: A

Heme binds with.

- a. Albumin.
- b. Globulin.
- c. Hemopexin.
- d. Haptoglobin.
- e. Macroglobulin.

Ans: C

Which clotting factor deficiency that causes coagulation rather than bleeding

- a. Factor 5
- b. Factor 12
- c. Factor 8
- d. Factor 7

Ans: A

Co₂ transport is an example of?

- a. Negative feedback
- b. Positive feedback
- c. Feed-forward mechanism
- d. Chemoreceptor
- e. Baroreceptor

Ans: A

p-ANCA granulomatosis vasculitis is associated with?

- a. Hep A
- b. Hep C
- c. Hep E
- d. Hep B

Ans: D

Patient has pericardial friction rub with deranged RFTs ---Urea was increased creatinine was 8. What is the cause of pericarditis?

- a. Transudate
- b. Restrictive
- c. Fibrinous
- d. Serous

Ans: C

A patient has chest pain from 4 hours which is radiating to his left arm. ECG shows ST elevation. Which cardiac enzyme will be raised?

- a. Trop I
- b. CK-MB
- c. Myoglobin
- d. LDH

Ans: A

Which of the following is raised in MI in first hour?

- a. Myoglobin
- b. LDH
- c. Trop T
- d. CK MB

Ans: A

ECG changes in hypoglycemia:

- a. T wave inversion
- b. Prominent U waves
- c. Increase PR interval
- d. Increase QT Interval
- e. Tall T waves

Ans: D

173. First cry in neonates is necessary for?

- Pulmonary function
- Heart
- Haemodynamics
- Hemocirculatory
- Closure of ductus venosus

Ans: A

174. A patient having severe Aortic Regurgitation, Which type of murmur she is having?

- Carey coombs murmur
- Ejection systolic murmur
- Early diastolic murmur

Ans: C

175. Collapsing pulse (water hammer Pulse) is most commonly seen in;

- Mitral regurgitation
- Mitral stenosis
- Aortic regurgitation
- Aortic stenosis

Ans: D

176. Which of the following parameters is decreased during moderate exercise?

- Arteriovenous O₂ difference
- End diastolic volume
- Total peripheral resistance (TPR)
- Arterial pCO₂
- Pulse pressure

Ans: C

177. Which of the following will increase O₂ requirement of Heart

- Hypertension
- Inc myocardial contractility
- Increased end Diastolic volume

Ans: B

178. Preload depends on?

- CVP
- End diastolic pressure
- End diastolic volume
- Venous return

Ans: C

179. A trained athlete at rest has increased?

- Heart rate
- Cardiac output
- Pulse

- Stroke volume
- Venous return

Ans: D

180. Neutrophil increase by?

- IL2
- IL4
- IL5
- Granulocyte colony factor

Ans: D

181. A person is suffering from fever infection, which factor is likely involved?

- IL 1 and TNF alpha
- IL5 and IL6
- Interferon's
- IL2

Ans: A

182. Man presents with diarrhea followed by vomiting, rapid dehydration, tongue BP of 90/40 Microscopic examination shows comma shaped organism. What is your diagnosis?

- E coli
- Vibrio cholera
- Staph Aureus
- Streptococci

Ans: B

183. What type of Necrosis seen in heart?

- Fat necrosis
- Liquefactive necrosis
- Caseous necrosis
- Fibrinoid necrosis
- Coagulative necrosis

Ans: E

184. The individuals with autosomal dominant disease who don't express it phenotypically

- Incomplete penetrance
- Co dominance
- Genetic heterogeneity

Ans: A

185. Karyotype of Klinefelter syndrome

- 45 XO
- 45 XX
- 47 XXY
- 47 YYY

Ans: C

186. A female has absent characteristic karyotype

Ans: A

187. The following diagnosis

Ans: E

188. A 2 year old male from Maharashtra has high fever

Ans: B

189.

Ans: A

190.

191.

186. A female with primary amenorrhea, absent secondary sexual characteristics. What would her karyotype show?

- e. 45 XO
- f. 45 XX
- g. 46 XXY
- h. 47 XYY

Ans: A

187. The feature which best supports the diagnosis of polycythemia is?

- a. Hyperplastic bone marrow
- b. Increase number of all cell series
- c. Increased serum uric acid
- d. Increased red cell mass

Ans: E

188. A 28-year-old soldier after retiring from Siachen glacier, having spent 6 months there, presents to CMH Rawalpindi, with complains of headache and peripheral cyanosis of his fingers. Most probably the cause is?

- a. Secondary polycythemia
- b. Polycythemia Vera
- c. Sick cell anemia
- d. Physiologic polycythemia
- e. Anemia

Ans: A

189. Structure related anterior to hilum of RT. kidney?

- a. Liver
- b. Small intestine
- c. Second part of duodenum
- d. Suprarenal gland
- e. Hepatic flexure of transverse colon

Ans: C

190. Organ which removes 70-80% oxygen of its arterial supply at rest?

- a. Kidney
- b. Liver
- c. Heart
- d. Spleen

Ans: C

191. Which of the following is a cause of edema in patient with heart failure?

- a. Increase hydrostatic pressure
- b. Decrease oncotic pressure

- c. Increase hypertension
- d. Increase capillary permeability

Ans: A

192. A 5-year-old child with generalized edema and proteinuria of 3.5 gm in 24 hours. The most underlying mechanism of edema is?

- a. Increased Hydrostatic pressure
- b. Decreased colloid osmotic pressure
- c. Decrease hydrostatic pressure
- d. Increase pressure in bowman capsule

Ans: B

193. A person with uncoordinated and random movements of hand and motor apraxia. Lesion is in?

- a. Premotor cortex
- b. Supplementary motor
- c. Somatosensory
- d. Primary motor

Ans: A

194. Drug of choice in obsessive compulsive neurosis is?

- a. Clomipramine
- b. Haloperidol
- c. Clonazepam
- d. Carbamazepine
- e. Lithium

Ans: A

195. Thirst center stimulated by activation of

- a. Renin
- b. Angiotensin 1
- c. Aldosterone
- d. ADH
- e. Angiotensin 2

Ans: E

196. BP of pt 180/110 and erythropoietin was decreased creatinine raised, possible site of defect was asked

- a. Juxtaglomerular cells
- b. Macula densa
- c. PCT
- d. DCT

Ans: A

197. In venous blood RBC have
a. Increase Cl conc
b. Increase bicarbonate

Ans: A

198. Blood group with No agglutinins?
a. AB positive
b. AB negative
c. O negative
d. A negative

Ans: A

199. Regarding central retinal vein?
a. Passes through inferior orbital fissure
b. Occlusion cause slow painless blindness
c. Receives veins from choroid as vorticos veins

Ans: B

18th September 2019 Medicine Night

1. Which of the following contain 80% Oxygenated blood?
a. Umbilical Artery
b. Inferior vena cava
c. Superior vena cava
d. Umbilical vein

Ans: D

2. Which of following has hyaline cartilage?
a. Epiglottis
b. External auditory meatus
c. Larynx
d. Intervertebral disc

Ans: C

3. Defect in Left temporal lobe affecting Meyer loop will cause?
a. Left homonyms hemianopia
b. Right homonymous hemianopia
c. Right upper Quadrantanopia
d. Left lower Quadrantanopia

Ans: C (also known as pie in sky defect)

4. Trachea bifurcates at level of?
a. T2-T3
b. T4-T5
c. T6-T7
d. C6-C7
e. C3-C4

Ans: B

5. Tractus Solitarius is formed by
a. Has 1st order neurons
b. 2nd order neurons
c. Has CN 3, 4, 5
d. Has CN 11, 12

Ans: B

6. Beta adrenergic stimulation causes
a. Pupil dilation
b. Erector pill dilation
c. Renin release
d. Pupil constriction

Ans: C

7. Type of haemoglobin in 5 months fetus is
a. HbF
b. Portland haemoglobin
c. Gower's Hb
d. Adult type hemoglobin

Ans: C

8. Regarding sleep waves?
a. Beta waves when eyes are closed
b. Bed wetting in RMP sleep
c. Alpha waves when eyes are closed

Ans: C

9. 60% of SA node is supplied by
a. LAD
b. Left main
c. RCA
d. Circumflex artery

Ans: C

10. First step in thyroid hormone formation involves binding of
to?
a. Tyrosine
b. Thyroglobulin
c. DIT
d. Thyronine
e. T3

Ans: A

11. On 2nd day of life breast feeding baby present with jaundice index bilirubin 8.5 mg/dL, total bilirubin 12 mg/dL, what is diagnosis?
a. Pathological jaundice
b. Breast feeding jaundice
c. Physiological jaundice
d. Dubin Johnson

Ans: C

12. Which of dominant
a.
b.
c.
d.

Ans: B (Bo)

since Hereditary carcinoma cases res

13. 40 ye lost have

Ans: C

14. 25 lo di

Ans:

- 15.

Ans:

- 16

12. Which of following is autosomal dominant disorder?

- a. Colon cancer
- b. **Retinoblastoma**
- c. Hemophilia
- d. Alpha antitrypsin def

Ans: B (Both A and B are correct but B > A)

since Hereditary non polyposis colorectal carcinoma (HNPCC) happens in 5% of cases rest are sporadic.

13. 40 years pt got traffic accident and he lost some blood what anemia he may have?

- a. Iron deficiency anemia
- b. Anemia of chronic disease
- c. **Normocytic normochromic anemia**
- d. Macrocytic anemia

Ans: C

14. 25 year old girl presented with weight loss palpitations hypertension diarrhea what is your diagnosis?

- a. Cushing syndrome
- b. Prolactinoma
- c. PCOS
- d. **Hyperthyroidism**
- e. Congestive heart failure

Ans: D

15. Drug that inhibit H⁺/K⁺ pump is?

- a. Amiodarone
- b. Furosemide
- c. **Omeprazole**
- d. Aspirin

Ans: C

16. During lumbar puncture CSF is drained from?

- a. Epidural space
- b. Subdural space
- c. **Subarchanoid space**

Ans: C

17. Which of following is transmitted through Orofecal route?

- a. Hep B
- b. Hep C
- c. **Hep E**
- d. Hep D

Ans: C

18. Lesion in which area in children is more commonly associated with bitemporal hemianopia?

- a. **Optic chiasma**
- b. Right optic tract
- c. Left optic tract
- d. Lateral Geniculate body

Ans: A

19. Successful resuscitation is mainly confirmed by?

- a. Decrease in pulse
- b. Increased in HR
- c. **Urine output**
- d. Slow pulse

Ans: C

20. A man given hyperbaric oxygen for 24 hours develops dyspnea and goes into respiratory distress. Most likely cause is?

- a. Pulmonary edema
- b. Tension pneumothorax
- c. Pulmonary embolism
- d. **Spontaneous pneumothorax**
- e. Anemia

Ans: D

21. Pt presented with ptosis, miosis is due to?

- a. Third nerve palsy
- b. **Sympathetic damage**
- c. Parasympathetic damage
- d. 4th nerve damage

Ans: B

22. Pt presented with severe trauma and he has lost huge blood there is no blood group matched available which of following can be given emergency situation?

- a. Blood A +
- b. **Blood O-**
- c. Blood O+
- d. Blood AB
- e. Blood Group B-

Ans: B

23. A 10-year boy diagnosed with tapeworm infestation. The drug of choice will be?

- a. Albendazole
- b. Mebendazole
- c. **Praziquantel**
- d. Pyrantel pamoate
- e. Piperazine citrate

Ans: C

FCPS PEARLS

24. In pregnancy initially HB 12 then become 10. Type of this anemia in pregnancy is?

- Macrocytic
- Microcytic
- Physiological
- Pathological

Ans: C

25. Type of hypersensitivity reaction in myasthenia gravis is?

- Type I
- Type II
- Type III
- Type IV

Ans: B

26. Pan-chewing causes?

- Leukoplakia
- Erythroplakia
- Adenocarcinoma
- Submucosal fibrosis

Ans: D

27. Characteristic feature of penicillin allergy is?

- Diarrhea
- Rashes
- Bronchospasm

Ans: C

28. Low complement level seen mainly in?

- SLE
- Diabetes
- Good pastures
- Minimal change disease

Ans: A

29. Male type of pelvis is?

- Gynecoid + Android
- Gynecoid + Platypeloid
- Android + Anthropoid
- Android + Platypeloid

Ans: C

30. Pt has PH 7.5, CO₂ 43, and bicarbonate 33 what's your diagnosis?

- Metabolic acidosis with compensation
- Respiratory alkalosis with compensation
- Uncompensated metabolic alkalosis

- Compensated metabolic alkalosis
- Respiratory acidosis

Ans: C

31. What change happens in primary dehydration?

- Hypotonic ECF
- Isotonic ECF
- Hypertonic ECF
- Hypertonic ICF

Ans: C

32. 7 year old presented with headache sodium is 110 urine osmolality of 610, diagnosis?

- Diabetes insipidus
- Dehydration
- SIADH
- Diarrhea

Ans: C

33. Structure which is medial to Thyroid gland

- Superior ophthalmic vein
- Recurrent laryngeal nerve
- Inferior vena cava

Ans: B

34. Boy has night blindness and his siblings has same problem, what test should be done?

- Fundoscopy
- Retinoscopy
- Visual acuity
- Ct brain
- Electroretinogram

Ans: E

35. Internal body environment is regulated by?

- Positive feedback mechanism
- Negative feedback mechanism

Ans: B

36. Recombinant growth therapy causes?

- Vit K Deficiency
- Benign Intracranial Hypertension
- Epilepsy
- Tremors

Ans: B

37. Stagnant hypoxia occurs in?
- Sea divers
 - Anemia
 - Polycythemia
 - Carbon monoxide poisoning

Ans: C

38. Posterior 1/3rd part of interventricular septum is supplied by?

- RCA
- Left circumflex Artery
- LAD

Ans: A

39. Abundant at finger tips?

- Ruffini
- Pacinian
- Free nerve endings
- Meissner

Ans: D

40. Amino acids which are Ketogenic?

- Histidine + Lysine
- Lysine + Leucine
- Arginine + Leucine
- Valine + Arginine
- Valine + Histidine

Ans: B

41. IP3 works through?

- C-Amp
- By releasing calcium from sarcoplasmic reticulum

Ans: B

42. 30 year old pt presented with headache BP: 170/120 he has high aldosterone, left renin level is high and right renin level is normal what your diagnosis is?

- Pheochromocytoma
- Right Renal artery stenosis
- Conn syndrome
- Addison disease
- Left renal artery stenosis

Ans: E

43. Patient taking Anti-malarial for P. Vivax develop dark color urine, Drug responsible?

- Quinine
- Primaquine
- Mefloquine
- Artesunate

Ans: B

44. Young child, hx of burn, got treatment, after 24 hours he developed edema due to
- Transcytosis
 - Direct endothelial injury
 - Endothelial retraction
 - Leukocyte mediated

Ans: C > B (Ref. Robbins Basic Pathology page 33 chapter 2 inflammation and repair By Vinay Kumar, Abul K. Abbas, Jon C. Aster)

45. Correct about Supra renal gland

- Supplied by Thoracic sympathetic trunk
- Rt relate to central tendon of diaphragm
- Hypogastric plexus on both side
- IVC on either sides

Ans: A

46. Basilar artery thrombosis feature

- Monoplegia
- Quadriplegia
- Bilateral cranial nerve palsies
- contralateral cerebellar palsies

Ans: B

47. Bar bodies most commonly related with which blood cell.

- Neutrophil
- Basophil
- Mast cell
- Lymphocyte

Ans: A

48. Inferior Thyroid artery is branch of.

- Thyrocervical trunk
- Costocervical trunk
- External carotid artery
- Internal carotid artery

Ans: A

49. Patient with decrease neutrophils. Increase lymphocytes and eosinophils. Increased ACTH level. Diagnosis?

- Cushing syndromes
- Cushing disease
- Ectopic ACTH
- Leukemia
- Addison's Disease

Ans: E

FCPS PEARLS

50. A 58-year-old man has had increasing difficulty in swallowing and has lost weight. Upper GI endoscopy reveals a nearly circumferential mass with overlying ulceration in the mid esophageal region. Biopsy of the mass reveals pink polygonal cells with marked hyperchromatism and pleomorphism. Which of the following is the most likely risk factor for development of his disease?

a. Iron deficiency
b. Helicobacter pylori infection
c. Chronic alcoholism
d. High fruit diet
e. Zenker diverticulum

Ans: C

51. Esophageal peristalsis when reaches lower esophageal sphincter what happens?

a. LES become non functioning
b. Opens before peristalsis reaches
c. Opens after peristalsis reaches sphincter
d. Tonically remains closes

Ans: B

52. Patient took some drug to strong his physique for sport activity, after few month his HB become 19 and HCT 50% with icterus, acne, azospermia, which tumor he is at risk of.

a. HCC
b. Renal Ca
c. Seminoma
d. Rhabdosarcoma

Ans: A

53. Which one of the following synapses in aorticorenal ganglion?

a. T5-T11
b. T9-T11
c. T5-T9

Ans: B

54. Muscle have following

a. Vimentin
b. Desmin
c. Keratin
d. Neurofilaments

Ans: B (if asked muscle connective tissue cells then vimentin)

55. Patient with malaise HB 10 TLC 6500 platelets 211000 morphology of all cells normal iron and TIBC value given with iron staining is well what is the cause

a. Hep C
b. SLE
c. Fanconi anemia

Ans: A

56. Plateau phase of ventricles of heart on ECG is represented by.

a. PR interval
b. ST segment
c. QRS complex
d. Q wave

Ans: B

57. Hookworm infection microscopic feature on peripheral blood slides

a. Spectacle shaped nuclei
b. Fine pink granules
c. Receptors of IgE
d. Eosinophilic chemotactic factor

Ans: A

58. Patient had trauma to arm during game, now root of thumb is numb and can't open fist which nerve is damaged?

a. Radial nerve
b. Median nerve
c. Ulnar nerve
d. Lateral cutaneous nerve of forearm

Ans: A

59. Which artery lies almost behind the sternum?

a. Internal thoracic artery
b. Carotid
c. Intercostal artery
d. Subclavian artery

Ans: A

60. Loss of inversion of foot Muscles damaged are?

a. Extensor hallucis longus and flexor hallucis
b. Tibialis anterior and extensor hallucis longus
c. Tibialis anterior and Tibialis posterior
d. Flexor hallucis longus
e. Extensor hallucis longus

Ans: C

61. Holding 3 books. 4th book added upon causing falling of books. Reflex?

- Inverse stretch
- Flexor reflex
- Extensor reflex
- Crosses extensor reflex

Ans: A

62. Patient diagnosed with terminal ovarian cancer. Told you not to tell her family. In a few days his son and daughter come to your clinic and ask you about the patient what do you?

- Tell them nothing
- Refer to another doctor
- Give them some info
- Refuse to meet them
- Tell them to mind their own business and let the patient decide what he wants to do.

Ans: A

63. The ground substance of Fibrocartilage has abundant of

- Amorphous ground substance
- Reticular fibers
- Collagen

Ans: C

64. Main function of cerebellum

- Maintain posture
- Coordination of agonist and antagonist muscle
- Maintain gait

Ans: C

65. Anemia due to P. Falciparum occurred, what would you see?

- Microscopic hematuria
- Lysis of infected RBC

Ans: B

66. Dormant state of malaria parasite is

- Merozoites
- Sporozoites
- Hypnozoite

Ans: C

67. Left axis deviation on ECG in

- RBBB
- Rt ventricular damage
- Apex of heart on RT side

Ans: B

68. Manifestation of Platelets deficiency

- Ecchymosis

- Hematuria
- Petechial hemorrhages
- Soft tissue bleeding

Ans: C

69. Patient suffering from painless reddish purple lesion, oral thrush and diarrhea what causes the red purple painless skin lesions?

- HHV-8
- ITP
- Candida
- HSV-2

Ans: A

70. Patient have unilateral pulsating headache with photophobia, nausea and vomiting. You gave a drug which have following MOA.

- Act on mu receptor
- Act on B2 receptor
- 5 HT agonist

Ans: C

71. Patient having gum bleed and normal RBC and WBC count. Peripheral smear show Large Platelets & count 45000, diagnosis?

- ITP
- Bernard-Soulier syndrome
- TTP

Ans: B

72. A female pt underwent C-Section 3 months back. Her wound is not healing properly. She is taking diet rich in proteins and carbohydrates but deficient in fruits and vegetables. Reason for poor wound healing is?

- Decrease Collagen tensile strength
- Defective synthesis of type 3 collagen
- Defective type 4 collagen

Ans: A ((Vitamin C Deficiency → Decrease Hydroxylation of Collagen → Decrease Tensile Strength))

73. Middle meningeal artery is a branch of?

- Ophthalmic artery
- Vertebral artery
- Superficial temporal artery
- External carotid artery
- Maxillary artery

Ans: E

74. Organism which produces fluorescent pigments and is resistant to β -lactam antibiotics?

- Pseudomonas**
- Staphylococcus
- Streptococcus
- Mycobacterium
- Treponema pallidum

Ans: A

75. Female pt with known valvular heart disease, now wants to insert IUCD, which bacteria could cause infective endocarditis?

- S. aureus,
- S. viridians**
- Coxiella burnetii
- Epidermidis

Ans: B

76. DOC for pseudomonas aeruginosa is?

- Ceftazidime**
- Ciprofloxacin
- Ampicillin
- Ceftriaxone
- Piperacillin

Ans: A (even though in first aid ed 2019 page 143 states ciprofloxacin, Piperacillin and Ceftazidime—all are active against it—but drug of choice is Ceftazidime acc to many books and Medscape)

77. Increase pulmonary vasoconstriction cause by.

- High altitude**
- Low altitude
- Emphysema
- Exercise

Ans: A

78. In pregnancy, which of the following occurs?

- Increase peripheral resistance
- Decrease vital capacity
- Decrease total lung capacity**
- Increase lung volume
- Increase vital capacity

Ans: C

79. Aldosterone most strongest stimulus

- Increase potassium**
- Renin
- Hemorrhage

d. Surgery

Ans: A

80. Antacid which delay gastric emptying?

- Magnesium hydroxide
- Sodium bicarbonate
- Aluminium hydroxide**
- Magnesium carbonate
- Potassium chloride

Ans: C

81. A boy with epistaxis having PT normal APTT 60 sec and BT 6 min. What is the defect?

- Extrinsic pathway
- Intrinsic pathway**

Ans: B

82. Most common complication of AIDS?

- Pneumocystis carini**
- Cryptococcus
- Herpes
- Candida
- Haemophilus

Ans: A

83. A taxi driver 2 weeks after returning from UAE presented with Fever, generalized lymphadenopathy and rash. Atypical lymphocytes on peripheral smear. Diagnosis?

- HIV**
- Falciparum malaria
- Chagas disease
- Lyme disease
- Leishmaniasis

Ans: A

84. Kupffer cells present in hepatic sinusoids are derived from

- Mesoderm**
- Endoderm
- Neural crest
- Ectoderm

Ans: A

85. Post ganglionic sympathetic fibers are present in

- Thoracic spinal nerve
- Lumbar spinal nerve
- All spinal nerves**

Ans: C

86. Which one will help in wound healing
- Sutures
 - Hypoalbuminemia
 - Secondary wound infection
 - Vascular insufficiency

Ans: A

87. Aortic insufficiency associated with?
- Rheumatoid Arthritis
 - Ankylosing spondylitis
 - Reiter Arthritis
 - Dermatomyositis

Ans: B

88. Ferrous form of iron
- Ferritin
 - Transferrin
 - Hemosiderin
 - Hemoglobin

Ans: D

89. Male patient with history of lumbago now presented with chest pain, ECG and cardiac enzyme normal on palpation there is mild tenderness on the posterior 4th to 6th rib, what could be the cause?
- Myocardial infarction
 - Costochondritis
 - Aortic dissection

Ans: B

90. After dehydration, in which part of nephron the most hypotonic urine will be present?
- DCT
 - Cortical collecting ducts
 - Loop of Henle
 - Glomerular filtrate
 - PCT

Ans: A

91. Hb is 10g, O₂ saturation 90%, PaO₂ = 60, calculate O₂ content?
- 7
 - 10
 - 13
 - 21

Ans: C

92. Young man awake with eyes closed, EEG will show which waves?
- Beta waves
 - Delta waves
 - Theta waves
 - Alpha waves

Ans: D

93. A lady presents with round face, fat on neck and abdomen, hirsutism and raised ACTH. Diagnosis?
- Cushing syndrome
 - Conn syndrome
 - Cushing disease
 - Addison disease

Ans: C

94. Patient had mid-diastolic murmur and left atria hypertrophy leading to pulmonary hypertension, what other features he would have?
- RVH
 - LVH
 - Decrease EDV

Ans: A

95. Regarding relation of pituitary:
- Anterior sphenoid air sinus
 - Optic chiasm inferiorly
 - Laterally to cavernous sinus
 - Derived from endoderm

Ans: C

96. A normal looking girl with height 5 feet on ultrasound she was having short blind vagina with normal vulva scanty pubic and axillary hairs normal breast absent uterus her karyotype is
- 46XY
 - 47XY
 - 47XXY
 - 45XO

Ans: A

97. Injury to sacral segments of spinal cord cause?
- Automatic reflex bladder
 - Urinary incontinence
 - Atonic bladder
 - Autonomous bladder causing continuous dribbling

Ans: D

98. Dorsal nucleus of vagus nerve is present at
- Medulla
 - Upper pons
 - Lower pons
 - Upper mid brain
 - Lower midbrain

Ans: A

99. Decrease proprioception in lower leg association

- a. Nucleus gracilis
- b. Fasciculus gracilis

Ans: B

100. First-order neuron has its cell body in the

- a. Nucleus gracilis
- b. Nucleus cuneatus
- c. Dorsal root ganglia

Ans: C

101. LCX (Left Circumflex Artery) block area affected

- a. Left atrium + left ventricle
- b. Right Atrium
- c. Right Atrium + Right Ventricle
- d. Right ventricle

Ans: A

102. Teacher have nystagmus and tremor that worse during writing, lesion in?

- a. Cerebellum
- b. Basal ganglia
- c. Cerebrum
- d. Substantia nigra

Ans: A

103. Diagnostic tumor marker of ovarian tumor?

- a. CEA
- b. AFP
- c. BRCA
- d. CA 121
- e. CA 125

Ans: E

104. SMA supply to.

- a. Duodenojejunal junction to 2/3 of transvers colon
- b. Duodenojejunal junction to 1/3 transvers colon
- c. Upto splenic flexure

Ans: A

105. Plexus at bifurcation of aorta, nerve runs from this plexus to a lower plexus?

- a. Hypogastric plexus
- b. Inferior mesenteric
- c. Superior mesenteric
- d. Greater splanchnic

Ans: A

106. Jejunum have blood supply from

- a. SMA
- b. IMA
- c. celiac trunk

Ans: A

107. Patient have abdominal pain. On sigmoidoscopy there is obstruction in upper part of sigmoid colon with ulcer. Patient have appendectomy scar that was done few year back. Cause of this is?

- a. Crohns disease
- b. Ulcerative colitis
- c. Diverticulosis
- d. Previous surgery

Ans: C

108. 50% show disease, 50% are normal; mode of inheritance?

- a. Autosomal dominant
- b. Autosomal recessive
- c. Multifactorial
- d. X linked

Ans: A

109. Psuedostratified epithelium properties

- a. All cell base are at basement membrane
- b. Have micro villi
- c. Cell with oval nuclei
- d. Have cilia

Ans: A

110. The most important criteria for diagnosis of malignancy is?

- a. Increase nuclear cytoplasmic ratio
- b. Pleomorphism
- c. Hyperplasia
- d. Metastasis
- e. Invasion

Ans: D

111. Urine conc 100, urine flow rate 2, plasma conc 10 calculate clearance?

- a. 10
- b. 20
- c. 30
- d. 40

Ans: B

112. Stratified cuboidal epithelium is present in?

- Male urethra
- Sweat duct
- Salivary gland
- PCT
- DCT

Ans: B

113. Cut on hand. First response to maintain homeostasis.

- Vasoconstriction
- Platelet aggregation
- Fibrin accumulation

Ans: A

114. Stab wound at apex of triangle, structure likely to be damaged?

- Femoral nerve
- Femoral artery and vein
- Deep circumflex

Ans: B

115. Which of following is autosomal recessive disorder?

- Achondroplasia
- Neurofibromatosis
- Marfan
- Alpha-1-antitrypsin deficiency

Ans: D

116. Autosomal dominant is different from autosomal recessive

- Only male carrier
- Complete penetrance is common
- Heterozygous is affected
- Only female affected.

Ans: C

117. Vitamin A is also known as

- Retinoic acid
- Retinol
- Rhodopsin
- Opsonin

Ans: B

118. True regarding Boundaries of Posterior triangle of the neck

- Covered by investing layer of deep cervical fascia
- Contains posterior rami of C2,3,4
- Trapezius forms its floor

Ans: A

119. MOA of digoxin?

- Block Na/Ca exchanger
- Inc intracellular calcium
- Increases heart rate by B2 receptors
- Inhibits vagus nerve

Ans: B

120. Cervical dysplasia cause by.

- Multiparity
- IUCD
- HSV
- Multiparity cause
- Ionizing radiation

Ans: A

121. Premalignant lesion of vulva is?

- Intradermal nevus
- Condyloma
- Krause's vulva
- Squamous papilloma
- Paget

Ans: E

122. A 7 years old school going boy develops sore throat. He received antibiotic for it, which resolved it, following 2 weeks, later he developed generalized body Edema, Hypertension and Hematuria. The most likely diagnosis is?

- Nephrotic syndrome
- Drug reaction
- Acute post streptococcal glomerulonephritis
- Bladder stones
- UTI

Ans: C

123. A pt. with $\text{CO}_2=44$, $\text{pH}=7.30$, $\text{HCO}_3=19$, what acid base abnormality?

- Metabolic acidosis
- Metabolic alkalosis
- Respiratory acidosis
- Respiratory alkalosis

Ans: A

124. Thioridazine mechanism of action

- Blocks dopamine receptors
- 5 HT agonist
- Decreases c-AMP

Ans: A

125. During development, T lymphocytes are protected from autoimmune destruction by?

a. Blood thymus barrier
b. Protected by Hassall's corpuscles
c. Blood brain barrier

Ans: A

126. In embryo Primordial germ cells are formed at

a. 3rd week
b. 4th week
c. 6th week
d. 3rd month

Ans: A

127. Aspirin should be stopped before surgery?

a. 4-5 days
b. 7-9 days
c. 10-12 days
d. 13-14 days

Ans: B

128. Patient have gonococcal urethritis if not treated will lead to.

a. Acute prostatitis
b. Epididymitis
c. Sacroiliitis

Ans: B

129. Patient with hypoxia, PO₂ 60mmhg, Hb 15, no history of poisoning or blood loss. Diagnosis

a. Anemia
b. Cyanide poisoning
c. CO poisoning
d. Hypoxic hypoxia
e. Stagnant hypoxia

Ans: D

130. Which of the following is a cause of pulmonary edema in patient with heart failure?

a. Increase hydrostatic pressure
b. Decrease oncotic pressure
c. Increase hypertension
d. Increase capillary permeability

Ans: A

131. Mean is

a. Sum of all values divided by total
b. Dividing readings in 2 halves n taking middle one.

c. most common occurring value

Ans: A

132. Side effects of recombinant human growth hormone therapy include:

a. Proliferative retinopathy
b. Aplastic anaemia
c. Leukaemia
d. Creutzfeldt-Jacob disease
e. Benign Intracranial hypertension

Ans: E

133. Temperature regulation in hypothalamus by

a. Pre-optic area of hypothalamus
b. Lateral hypothalamus
c. Post hypothalamus

Ans: A

134. Which nucleus will activate to lose heat from the body:

a. Anterior hypothalamus
b. Posterior hypothalamus
c. Superior
d. Lateral hypothalamus

Ans: A

135. A pregnant lady with labor pains and obstructed labor was taken to the hospital but died before reaching to the hospital. Most likely cause is?

a. Fat embolism
b. Air embolism
c. Pulmonary embolism
d. Amniotic fluid embolism

Ans: D

136. A Women delivered baby in village. Her platelet count was 30×10^9 and TLC raised with raised PT and APTT. Diagnosis?

a. Septicemia
b. PPH
c. ITP
d. DIC

Ans: D

137. A 45 yr male presented to ER with fracture of pelvic bone in RTA with shock. Most likely cause of shock is

a. Fat embolism
b. Fracture
c. Excessive blood loss
d. DVT
e. Bowel involvement

Ans: C

138. A woman develops DVT after laparotomy. Most likely cause is?

- Stasis only
- Endothelial injury + Stasis
- Endothelial injury + Hypercoagulable state
- Endothelial injury only
- Stasis + Hypercoagulable state

Ans: E
139. Extrapyramidal tract lesion shows?

- Hypo-reflexia
- Clasp knife spasticity
- Decrease tone
- Does not affect muscles

Ans: B
140. MOA of Allopurinol?

- Xanthine oxidase inhibitor
- Renal excretion of uric acid
- Decrease absorption of uric acid

Ans: A
141. Damage to basal ganglia will lead to

- Clasp knife rigidity
- Lead pipe
- Abnormal involuntary movements
- Cogwheel rigidity

Ans: C
142. Lowest venous pressure in body while standing?

- At the heart level
- Foot
- Jugular vein
- Sagittal sinus

Ans: D
143. New born baby anemic for which she received exchanged transfusion. After 10 days he developed diarrhea and a rash on arm spreading to body. Diagnosis

- Graft versus host reaction
- CMV
- Delayed transfused reaction
- Type 1 hypersensitivity reaction

Ans: A
144. Blood supply of middle esophagus is by?

- Superior thyroid artery
- Left gastric artery
- Internal thoracic artery
- Descending thoracic aorta

Ans: D

145. Hemorrhage due to perforation of lesser curvature of stomach which artery is involved

- Gastrooduodenal artery
- Left gastric artery
- Right gastric artery
- Splenic artery

Ans: B

146. Atrial Extra systole beat on ECG

- AV nodal delay
- Wide QRS complex
- Abnormal ST segment
- Prolong PQ interval

Ans: A

147. Partial resection of pancreas lead to loss of exocrine function. What finding will be present?

- High trypsin in duodenal fluid
- Absent trypsin in duodenal fluid
- Normal HCO_3^-

Ans: B

148. Resection of ileum and some part of jejunum cause 10 to 20 bowel movements per day. Cause is

- Osmotic plus secretory diarrhea
- Increase secretin release from small bowel
- secretory diarrhea
- osmotic diarrhea

Ans: A

↓ Explanation: Decreased ileal reabsorption of bile salts results in fat malabsorption and steatorrhea. The presentation of increased amounts of bile salts and fatty acids to the colon decreases water absorption and stimulates active chloride and water secretion, producing a cholera-like high-volume secretory diarrhea. The loss of the ileocecal valve and ileum segment accelerates intestinal transit time, which does not allow for complete digestion and absorption of food. Water and electrolytes remain associated with undigested food particles and may overwhelm the absorptive capacity of the colon, resulting in an osmotic diarrhea

Ans: A

149. Regarding irreversible cell injury most imp is?

- Swelling of the cell
- Swelling of endoplasmic reticulum
- Swelling of mitochondria
- Rupture of cell membrane and release of cellular enzymes
- Rupture of lysosomal and release of lysosomal enzymes

Ans: E

150. Which is correct regarding bronchopulmonary segment?

- Supplied by primary bronchi
- Secondary bronchi
- Aerated by tertiary bronchus
- Not directly related to each other
- Each bronchopulmonary segment is supplied by a separate vein of its own

Ans: C

151. Most specific manifestation of penicillin hypersensitivity is?

- Generalized rash
- Bronchospasm
- Hemolytic anemia
- Joint pain

Ans: B

152. Regarding Zona Fasciculata of adrenal

- Stimulated by ACTH
- Secretes aldosterone
- Stimulated by hyperkalemia

Ans: A

153. Which drug decreases the triglyceride levels the most?

- Gemfibrozil
- Cholestyramine
- Niacin
- Atorvastatin

Ans: A

154. Ph 7.2, Co2 66, HCO3 24, diagnosis?

- Metabolic acidosis
- Respiratory alkalosis
- Uncompensated metabolic alkalosis
- Uncompensated Respiratory acidosis

Ans: D

155. The Antipsychotic action of phenothiazines is on?

- GABA receptors of limbic system
- GABA receptors of thalamus
- Dopamine blocking in limbic
- Serotonin

Ans: C

156. Cause of atheroma?

- Diastolic HTN
- Systolic HTN
- Alcohol
- Cholesteatoma

Ans: A (focus on the option D, Cholesteatoma is an ear diseases)

157. Female Patient presented with complaint of weight loss, sweating, palpitation and diarrhea, on examination you find out BP is normal, what could be the probable diagnosis?

- Addison disease
- Cushing
- Hyperthyroid
- Hypothyroidism

Ans: C

158. Which fluid that is given in primary dehydration, initially decrease ICF and increase ECF and increases total body water?

- 3% normal saline
- Ringer Lactate
- 0.9% normal saline
- 0.45% normal saline

Ans: A

159. A child had a fracture for which cast is applied to his leg. After some time cast is removed and his calf muscles show reduced muscle mass. This is

- Denervation atrophy
- Dec blood supply
- Dec work load
- Pressure atrophy

Ans: C

160. A boy after RTA loses 1.5liters of blood during first hour. What type of anemia will be seen on peripheral smear?

- Iron deficiency
- Megaloblastic
- Microcytic hypochromic
- Macrocytic normocytic
- Normocytic normochromic

Ans: E

161. During extra systole which of the following occurs?

- Pulse pressure decreases due to decrease in stroke volume
- Pulse pressure increases due to increase in stroke volume
- Pulse pressure decrease due to increase in stroke volume
- Pulse pressure increase due to increase in stroke volume

Ans: A

162. Neurogenic shock associated with.

- Dec SV
- Dec cardiac output
- Decrease systemic filling pressure

Ans: C

163. Hypertrophy and hyperplasia are concomitantly seen in?

- Uterus in pregnancy
- Breast in puberty
- Muscles in exercise
- Uterus in menstruation

Ans: A

164. Max bioavailability

- I/M
- Subcutaneous
- Rectal
- Sublingual

Ans: D

165. A smoker working in a plastic factory presents with painless hematuria & atypical urothelial cells. Diagnosed as bladder Ca. What is the most likely cause?

- Nitrites & nitrates
- Aromatic amines
- Aryl amine
- Silica

Ans: E e. Smoking

166. Pus contains

- Dead Neutrophils
- Dead bacteria
- Dead lymphocytes

Ans: A

167. Pt died of MI, on autopsy neutrophils with necrotic area seen after?

- 12 hours
- 24 hours
- 48 hours
- 78 hours

Ans: C

168. Patient have SOB on examination trachea is shifted to Left side and absent breath sound on RT side of chest. Hyper-resonant percussion note on RT side. What is dx?

- Pneumothorax
- Pleural effusion
- Consolidation

Ans: A

169. Pregnant women having fetus with respiratory distress. For lung maturity of fetus, which drug should be given

- Dexamethasone
- Betamethasone
- Salbutamol

Ans: B

170. Which of the following types of drugs will have maximum oral bioavailability?

- Drugs with high first-pass metabolism
- Highly hydrophilic drugs
- Largely hydrophobic, yet soluble in aqueous solutions
- Chemically unstable drugs
- Drugs that are P-glycoprotein substrates

Ans: C

FCPS PEARLS

171. Alcoholic man presented with abdominal pain, serum amylase level came to be 1600, ALT 75, What is your diagnosis

a. Acute pancreatitis
b. Gastritis
c. Obstructive jaundice

Ans: A

172. Major portion of prostaglandin release from

a. Seminal vesicle
b. Prostate

Ans: A

173. Major phagocytic cell which presents antigen to lymphocytes is?

a. Basophils
b. Eosinophils
c. Neutrophils
d. Histamine
e. Monocytes/macrophages

Ans: E

174. Oxidative burst in neutrophils is related to?

a. Initiation of microbicidal killing
b. Opsonization
c. Phagocytosis

Ans: A

175. Mitochondria is self-replicative organelle as they have

a. DNA
b. Ribosomes
c. Oxysomes
d. Nucleus

Ans: A

176. Cardiac output measure by dye dilution method and dye should be measure in

a. Rt atrium
b. Aorta
c. Peripheral artery
d. Saphenous vein

Ans: B

177. Function of enzyme?

a. Increase free energy of activation
b. Increase pH
c. Decrease activation energy of reactants
d. Decrease temp

Ans: C

178. After dark adaptation what will occur?

a. Improve vision in central part
b. Improve vision in peripheral part
c. Dec cone sensitivity

Ans: C

179. Hypercalcemia will lead to formation of?

a. 1, 25 dihydroxy Calciferol
b. 24, 25 hydroxycholecalciferol
c. Hyperphosphatemia

Ans: B

180. What type of Necrosis seen in acute pancreatitis?

a. Fat necrosis
b. Liquefactive necrosis
c. Caseous necrosis
d. Coagulative necrosis
e. Fibrinoid necrosis

Ans: A

181. Regarding Lymph node

a. Deep with arteries
b. Superficial with vein
c. Have some valves
d. Have same like layers like of arteries
e. Drain tissue fluid

Ans: E

182. Radiation damage cell by free radicals which act on

a. Nucleus
b. DNA
c. Ribosomes
d. Mitochondria

Ans: B

183. True about right lung is?

a. Azygous in direct relation
b. Has one fissure only
c. Have 7 segments

Ans: A

184. Which of the following arches over root of right lung

a. Azygous vein.
b. Hemiazygous vein
c. Oesophagus
d. Thoracic duct
e. Phrenic nerve

Ans: A

185. Clavipectoral fascia which vein is present

- Cephalic
- Basilic
- Axillary
- Subclavian

Ans: A

186. Patient with abdominal bloating and foul smelling stools. Investigation to be done is?

- Ultrasound
- Stool culture and sensitivity
- CBC
- Stool D/R
- Stool C/S

Ans: D

187. A pt with Taenia Solium and Schistosoma infection. Drug of choice will be?

- Praziquantel
- Niclosamide
- Albendazole
- Mebendazole
- Clotrimazole

Ans: A

188. Muscle involved in opening of mouth?

- Medial pterygoid
- Temporalis
- Masseter
- Platysma
- Lateral pterygoid

Ans: E

189. Respiratory stimulus by is medullary center, further rate and depth is controlled by?

- Peripheral chemoreceptor
- Apneustic
- Pneumotaxic centre
- Medulla

Ans: C

190. G-protein phospholipase-C results in

- C-GMP
- C-AMP
- IP3

Ans: C

191. Effect of norepinephrine on heart?

- Increase in speed of arterial smooth muscle contraction
- Increase in rate of SA node depolarization
- inc contraction velocity of atria

Ans: B

192. Pubic symphysis is:

- Primary cartilaginous joint
- Synovial joint
- Fibrous joint
- Secondary cartilaginous
- Pivot joint

Ans: D

193. Pt is Using Warfarin, what to monitor

- PT
- PTT
- Hb
- TLC

Ans: A (INR not given in options)

194. Pregnant lady using lots of antibiotics. Gives birth to a baby. The baby has jaundice and easy bruisability. What is deficient?

- Vitamin K
- Vitamin A
- Vitamin D
- Vitamin b12

Ans: A

195. Which of the following decreases blood volume?

- ANP
- ADH
- Aldosterone

Ans: A

19th November 2019 Medicine Afternoon

1. Undescended testes are associated with which of these complication?

- Neoplasia
- Infertility
- Inflammation
- Avascular necrosis
- Infection

Ans: A

Ans: A

19th November 2019
Medicine Afternoon

1. Undescended testes are associated with which of these complication?
- a. Neoplasia
 - b. Infertility
 - c. Inflammation
 - d. Avascular necrosis
 - e. Infection

Ans: A

2. The most common complication of IUCD is

- Purulent vaginal discharge
- Dysplasia
- Hypertrophy
- Squamous metaplasia
- Irregular vaginal bleed

Ans: E

3. Which of the following is a part of basal ganglia?

- Substantia nigra
- Red nucleus
- Caudate nucleus
- Subthalamic nucleus

Ans: C

4. A patient undergoing TB treatment complains of orange-pink discoloration of urine. Which of the following drugs is responsible for it?

- Pyrazinamide
- Isoniazid
- Streptomycin
- Ethambutol
- Rifampicin

Ans: E

5. An adult complaining of dyspepsia and loss of appetite with h/o alcohol consumption. Liver biopsy revealed alcoholic liver disease. The likely characteristic feature seen on biopsy will be?

- Fatty changes
- Mallory bodies
- Nutritional disturbance
- Extensive hepatic fibrosis
- Proliferation of bile duct

Ans: B

6. A known CLD patient presents with hematemesis resulting from rupture of esophageal varices. Bleeding occurs from which artery?

- Superior mesenteric vein
- Right Gastric Vein
- Azygous vein
- Left Gastric Vein
- Inferior mesenteric vein

Ans: D

7. Conductive aphasia occurs due to lesion in?

- Caudate nucleus

- Fastigial nucleus
- Dentate nucleus
- Wernicke area 22
- Arcuate fasciculus

Ans: E

8. Similarity between Cardiac and Skeletal muscle is?

- Transverse striations
- Transverse tubules
- Ca-Calmodulin complex
- Gap junction
- Sarcomeres

Ans: A

9. Nerve supply to adrenal medulla from?

- Lesser thoracic splanchnic nerve
- Least thoracic splanchnic nerve
- Greater thoracic splanchnic nerve
- Sciatic nerve

Ans: C

10. Which of the following represent complete ventricular systole on ECG?

- QRS complex
- ST segment
- PR interval
- RR interval
- PR segment

Ans: B

11. Absent P waves on ECG occur in

- Massive pulmonary embolism
- MI
- 3rd degree block
- Nodal rhythm
- 1st degree block

Ans: D

12. Which of the following keeps balance between calcium and phosphate is?

- Vit D
- Calcitonin
- Renal function
- Thyroid
- PTH

Ans: E

HOTS PEARLS

13. A child developed diarrhea. Biopsy of intestine show villous atrophy and gluten free diet doesn't improve his symptoms. What is the probable diagnosis?

- a. Giardiasis
- b. Celiac disease
- c. Whipple disease
- d. Shigella
- e. Immunoproliferative disorder

Ans: A

14. A 6-year boy complains of joint pain and also gives history of profuse bleeding after circumcision. What test should be done to reach the final diagnosis?

- a. Peripheral smear
- b. Serology
- c. APTT
- d. PT
- e. Factor 8 assay

Ans: E

15. People with blood group A+ are likely to develop which of these?

- a. Ca Liver
- b. Sedentary lifestyle
- c. Ca pancreas
- d. Ca stomach

Ans: D

16. Which of the following will differentiate between Rickettsia and mycoplasma?

- a. Ziehl-Neelsen stain
- b. Gram stain
- c. Giemsa stain
- d. Sudan black stain

Ans: B (Mycoplasma—contains sterols which do not gram stain—Rickettsia do not Gram stain well—But this is the only matching option)

17. Oxidative burst in neutrophils is related to?

- a. Initiation of microbicidal killing
- b. Opsonization
- c. Phagocytosis
- d. Migration

Ans: A

18. Pain and temperature fibers are in?

- a. Ventral spinothalamic tract
- b. Anterior spinothalamic tract

- c. Vestibulospinal tract
- d. Posterior spinothalamic tract
- e. Lateral spinothalamic tract

Ans: E

19. Anterior border of the lumbar triangle is formed by?

- a. Latissimus dorsi
- b. Internal oblique muscle
- c. Posterior border of external oblique
- d. Serratus anterior

Ans: C

20. A 30-year male developed brain tumor. Histological examination revealed B-cell lymphoma. The most useful investigation in this pt is antibody test for?

- a. CMV
- b. HIV
- c. EBV
- d. HSV
- e. RSV

Ans: C

21. Parietal cells release?

- a. Intrinsic factor and HCO_3^-
- b. Somatostatin and CCK
- c. Intrinsic factor and gastrin
- d. Intrinsic factor and HCl
- e. HCl and somatostatin

Ans: D

22. Potent stimulator of gastrin release is?

- a. Protein
- b. Carbohydrates
- c. Lipids
- d. Fats
- e. Caffeine

Ans: A

23. The highest conduction velocity in cardiac tissue is found in?

- a. Atrial myocardial tissue
- b. Ventricular myocardial tissue
- c. Atrioventricular node
- d. Sinoatrial node
- e. Purkinje fibers

Ans: E

24. Medial lemniscus is formed by decussation of?

- External arcuate fibers
- Internal arcuate fibers
- Pyramid tract
- Anterior spinothalamic tract
- Posterior external arcuate

Ans: B

25. Hyaline cartilage is present in?

- Articular surface of TMJ
- Knee meniscus
- Larynx
- Pinna of ear
- Bones

Ans: C

26. Which artery has branches that are end arteries?

- Coronary artery
- Renal artery
- Splenic artery
- Central retinal artery
- Cerebellar artery

Ans: D

27. Which is the common cause of delay wound healing?

- Infection
- Malnutrition
- Vitamin deficiency
- Mobility
- UV light

Ans: A

28. Scenario of an old person presented with weakness and lethargy. Blood show increase RBC, WBC and platelet count. Bone marrow shows hyperplasia. What is the diagnosis?

- Megaloblastic anemia
- Hairy cell leukemia
- Myeloproliferative disorder
- Acute leukemia

Ans: C (polycythemia Vera scenario)

29. Mechanism of Pyrimethamine in malarial parasite?

- Inhibit detoxification of heme into hemozoin
- Inhibits Dihydrofolate reductase
- Interferes with hemoglobin digestion in parasite
- Inhibits spread of gametes

Ans: B

30. Nissl bodies are mainly present in?

- Axon hillock
- SER
- RER
- Microtubules
- Microfilament

Ans: C

31. With the use of spironolactone, what changes will be seen in urine?

- Decreases sodium and decreases potassium excretion
- Decreases sodium and increases potassium excretion
- Decrease sodium and no change in potassium excretion
- Increase sodium and potassium excretion
- Increases sodium excretion and decreases potassium excretion

Ans: E

32. An expected mother was infected with rubella. Months later she delivers a full term baby with no obvious signs of infection. The best test to diagnose acute infection in neonate be a parasite specific ELISA for which isotype of immunoglobulin?

- Ig G
- Ig G1
- Ig G4
- Ig M
- Ig A

Ans: D

33. Long term memory is made by?

- Protein synthesis and gene activation
- Synaptic facilitation
- Increase neuronal activity
- Presynaptic inhibition
- Postsynaptic inhibition

Ans: A

34. Most common pro-thrombotic point mutation is?

- Factor 2
- Factor 7
- Factor 11
- Factor 12
- Factor 5

Ans: E

35. Heparin primarily acts on?

- Factor 10
- Thrombin
- Anti-thrombin 3
- Factor 12
- Factor 11

Ans: C

36. What causes decreased renal clearance of Ca ions?

- Hypo parathyroid
- Hypermagnesemia
- Furosemide therapy
- Chlorothiazide

Ans: D

37. A young girl presented with fatigue and weight loss. O/E she had ascites, right sided pleural effusion and abdomino-pelvic mass. U/S confirmed a mass in ovary. Which marker is likely to be raised?

- Ca 19-9
- Ca-125
- Serum CEA
- Serum estrogen
- Beta HCG

Ans: B

38. A 5-year girl is brought to the physician because of facial swelling, puffy eyes and swollen legs. She has h/o a mild cellulitis after a mosquito bite 3 weeks ago. A urine sample shows a reddish brown hue and contains both RBC and protein. Which of the following is most likely to be seen on renal biopsy?

- Fusion of Podocyte foot processes
- Hyperplastic arteriolitis
- IgA in the mesangium
- Linear IgG deposits
- Sub epithelial electron dense humps

Ans: A

39. In which of following situations can the confidentiality of a patient be breached?

- Insurance claim
- Serious disease like cancer
- If the patient is psychotic
- Non organic disease
- When the patient allows

Ans: E

40. Internal capsule lesion involves?

- Spastic paralysis on opposite side
- Flaccid paralysis on the opposite side of the body
- Spastic paralysis on same side of body
- Flaccid paralysis on the same side of the body

Ans: C

41. HLA B5 is associated with?

- Myasthenia disease
- Rheumatoid disease
- Reactive arthritis
- Behcet disease
- Buerger disease

Ans: D

42. You have just confirmed the diagnosis of cystic fibrosis in a 3-year-old child. The parents are concerned about future pregnancies. You explain to them that the pattern of genetic transmission of cystic fibrosis is?

- Autosomal dominant
- Autosomal recessive
- X-linked recessive
- X-linked dominant
- Autosomal recessive in some families and X-linked in others

Ans: B

43. What will be different in the saliva of a cystic fibrosis patient?

- More calcium than normal
- Less sodium than normal
- Less magnesium than normal
- More chloride than sodium
- More sodium than chloride

Ans: D

44. Infection of the big toe is carried to which of the following lymph node?

- Medial group of superficial inguinal lymph nodes
- Lateral group of superficial inguinal lymph nodes
- Vertical group of superficial inguinal lymph nodes
- Femoral nodes
- Horizontal group of superficial inguinal lymph nodes

Ans: C

45. Memory center is located in which part of the brain?

- Temporal lobe
- Insula
- Parietal lobe
- Frontal lobe
- Occipital lobe

Ans: A

46. Which of the following causes severe steatorrhea?

- Distal ileum resection
- Gall bladder resection
- Gastric resection
- Total pancreatectomy
- Zollinger Ellison syndrome

Ans: D

47. Most growth hormone have their receptor located on?

- Nucleus
- Plasma membrane
- RER
- SER
- Mitochondria

Ans: B

48. In dehydration, thirst is stimulated by sensory receptors present in?

- Aldosterone
- Vasopressin
- Angiotensin 1
- Renin
- Angiotensin 2

Ans: E

49. Regarding A+ve blood group:

- Have o and A blood antigen
- Anti AB antibodies
- Anti B antibodies present in plasma
- Associated with peptic ulcer
- No antibodies

Ans: C

50. Dietary precursor of serotonin is?

- Tryptophan
- Phenylalanine
- Glycine
- Tyrosine
- Glutamate

Ans: A

51. A 59-year construction worker has a history of asbestos exposure. Which

of the following malignancies is most likely to occur in this man?

- Bladder carcinoma
- Lymphoma
- Scrotal carcinoma
- Malignant mesothelioma
- Osteosarcoma

Ans: D

52. A runner wins' marathon race. After finishing, hormones balance in the body will be?

- Increase insulin and increase glucagon
- Decrease insulin and increase glucagon
- Decrease glucagon and increase insulin
- Decrease insulin and decrease glucagon
- No change

Ans: B

53. A man had MI and died after 5 days. On autopsy, histological features show which of the following?

- Lymphocyte
- Plasma cells
- Basophils
- Neutrophils
- Macrophages

Ans: E

54. In full contraction of skeletal muscle the following change takes place?

- A band disappear
- I band appears
- Two Z discs touches the edge of myosin filaments
- Length of sarcomeres increase
- Myosin filaments slide over the actin filaments

Ans: C

55. Dysplasia is mainly seen in?

- Epithelium
- Connective tissue
- Bone
- Blood
- Fats

Ans: A

162. A patient in ER collapsed after penicillin injection. O/E he was profusely sweating and had a generalized body rash. Which antibody is involved?

- a. Ig G
- b. Ig M
- c. Ig A
- d. **Ig E**
- e. Ig D

Ans: D

163. During Voluntary muscle contraction:

- a. Both alpha and gamma motor neuron in ascending pathway are excited
- b. **Both alpha and gamma motor neuron in descending pathway are excited**
- c. Spindles are unloaded and afferent fibers stop firing
- d. The stretch reflex is suppressed
- e. Presynaptic inhibition

Ans: B

164. Extra systole will cause?

- a. Increase in pulse pressure due to increased heart rate
- b. Increase in pulse pressure due to increase peripheral resistance
- c. Decrease in pulse pressure decrease ventricular filling
- d. Increase pulse pressure due to increase stroke volume
- e. **Decrease pulse pressure because decrease stroke volume**

Ans: E

165. A 45-year man presents with inability to feel heat or cold on the left side of his body. On examination, there is loss of vibration, position sense, deep touch, and motor functions of the right lower limb. What is the most likely diagnosis?

- a. Tabes dorsalis
- b. Syringomyelia
- c. **Right Brown Sequard syndrome**
- d. Posterior cord syndrome
- e. Anterior cord syndrome

Ans: C

166. Common features of normal kidney:

- a. **Podocytes in visceral layer of Bowman Capsule**
- b. Slit like membrane between Macula densa and JG apparatus
- c. Cuboidal epithelium in parietal layer of Bowman capsule
- d. DCT longer than PCT
- e. Glomerulus has a single arteriole

Ans: A

167. A farmer is suffering from nasal congestion, severe cough and episodic dyspnea. On CXR the physician found a mass. His IgE and eosinophils levels are increased. It is due to?

- a. Squamous cell carcinoma
- b. Hepatocellular carcinoma
- c. **Aspergillosis**
- d. Lipoma
- e. Wegener granulomatosis

Ans: C

168. Right shift of Oxy-Hb Curve occurs in?

- a. Decrease temperature
- b. CO poisoning
- c. Fetal Hb
- d. **Increase CO₂**
- e. Decrease 2,3 DPG

Ans: D

169. In primary dehydration, ECF becomes?

- a. Hypotonic
- b. **Hypertonic**
- c. Isotonic
- d. No change

Ans: B

170. Parasympathetic nerves supplying the urinary bladder are?

- a. Superior mesenteric plexus
- b. Celiac plexus
- c. **Pelvic splanchnic nerves**
- d. Inferior mesenteric plexus

Ans: C

171. Rega

- a. T
- b. E
- c.
- d.
- e.

Ans: E

172. In r hemor

- a.
- b.
- c.
- d.

Ans: C (Re Resuscitation Volume 1 Christoph which sta hemorrha contractil resistanc

173. A

trans imm pres rigi sho 80% aro is?

Ans: A

174. an ol

Ans: A

175.

67. A 55-year male with past history of epigastric pain for which he was taking Antacids was diagnosed as gastric lymphoma. What is the most likely cause?

- Drug induced gastritis
- Ulcer
- Intestinal metaplasia
- Atopic gastritis
- H. Pylori

Ans: E

68. Which of the following pituitary hormones is an opioid peptide?

- α -Melanocyte-stimulating hormone
- β -Endorphin
- β -MSH
- ACTH
- Growth hormone

Ans: B

69. Which is an example of a neuro-Hypophysial hormone?

- Oxytocin
- Prolactin
- ACTH
- Cortisol

Ans: A

70. Anti-neutrophils antibody is present in?

- DM
- Sarcoidosis
- Vasculitis
- Arthritis
- Hypertension

Ans: C (Polyarteritis Nodosa-medium size vasculitis)

71. When the respiratory muscles are relaxed, the lungs are at

- Residual volume (RV)
- Expiratory reserve volume (ERV)
- Inspiratory reserve volume (IRV)
- Functional residual capacity (FRC)
- Total lung capacity (TLC)

Ans: D

72. A patient came to ER with shortness of breath and sharp chest pain. O/E No air entry on right side and hyper resonant on percussion, the lungs collapsed inward and chest sprung

outward. CXR shows trachea shifted towards left. Diagnosis is?

- Lung collapse
- Hemothorax
- MI
- Pleural effusion
- Right sided pneumothorax

Ans: E

73. Deep vein thrombosis first gets lodged in?

- Pulmonary vein
- Pulmonary artery and branches
- Right atrium
- Renal vein tributaries
- Hepatic artery

Ans: B

74. Velocity of blood flow is maximum in?

- Pulmonary artery
- SVC
- Cerebral vein
- Left atrium
- Portal vein

Ans: A

75. Most common glomerular disease in HIV patients is?

- Interstitial nephritis
- Glomerulosclerosis
- Focal segmental glomerulosclerosis
- Membranous glomerulonephritis
- Minimal change disease

Ans: C

76. Thoracolumbar outflow is?

- Parasympathetic
- Has Cranial nerves
- Adrenergic
- Sympathetic

Ans: D

77. A chronic smoker from 30 year working in tire factory presented with painless hematuria. Histopathology show transitional cell carcinoma of bladder. Causative agent in his case is?

- Aromatic amine
- Radiation
- Coal
- Nitrates
- Tobacco smoking

Ans: E

KOPS PEARLS

78. Standard deviation:

- It is a multiple of its variance
- Always presented with a mean
- Difference of mean
- Percentage of each value
- Repeated value

Ans: B

79. Temperature is controlled by?

- Anterior hypothalamus
- Skin
- Supraoptic nucleus
- Spinal cord
- Posterior hypothalamus

Ans: A

80. A patient with prolonged diarrhea undergoes OGD. Biopsy of small intestine shows numerous crescent-shaped protozoa adjacent to epithelial brush border. Which is the likely pathogen involved?

- Entamoeba histolytica
- E. coli
- Giardia lamblia
- Naegleria fowleri
- Trichomonas vaginalis

Ans: C

81. Which of the following crosses placenta in a pregnant female with thyroid disease and affects fetus?

- PTU
- TSH
- Prednisolone
- T4
- Thyroxine

Ans: A (Acc to few students methimazole was not in options but if it is in option prefer methimazole—remember methimazole is teratogenic while PTU causes hepatotoxicity and aplastic anemia)

82. Which of the following is the useful effect of positive inotropic?

- Decreases heart rate
- Decreases cellular conduction
- Decreases vagal stimulation
- Increases contractility
- Decreases contractility

Ans: D

83. Hypothyroidism due to thyroid gland disease is associated with increased level of?

- Albumin
- Cholesterol
- Reverse T3
- Iodide
- Potassium

Ans: B

84. Hyponatremia is likely caused by?

- Increase in body water
- Decrease in body water
- Absence of ADH
- Decrease in aldosterone level
- Increased salt

Ans: A

85. The most important factor for the repair of vascular endothelium is produced by?

- Leukocytes
- Steroids
- Platelets
- Vit A
- Vit C

Ans: C

86. During meiosis abnormalities may occur if one of the cell gets an extra chromosome instead of haploid number. The condition is called?

- Non-disjunction
- Monosomy
- Robertsonian dislocation
- Aneuploidy
- Trisomy

Ans: A (trisomy 21 is example of non-disjunction)

87. Which of the following will happen on the excitatory synapse?

- Cation influx on presynaptically through ligand channels
- Joining of synaptic vesicle on the presynaptic membrane
- Cation influx on post synaptic membrane through voltage gated channel
- Cation influx on postsynaptically through ligand gated channels

Ans: D

88. A person took stairs to 4th floor. Increase in cardiac output will be due to?

- Decrease parasympathetic activity
- Increase preload
- Cardiac muscle hypoxia
- Increase P_{CO2}
- Decrease heart rate

Ans: B

89. The best index of afterload is?

- Blood Pressure
- Venous volume
- Cardiac output
- Heart rate

Ans: A

90. Opioids produces vomiting by acting on?

- Vomiting center
- Antagonist of dopamine
- Chemo trigger zone in medulla
- Irritation of gastric mucosa

Ans: C

91. A male had RTA and sustained an injury on occipital region. Now presented with homonymous hemianopia. Which structure is damaged?

- Optic chiasm
- Visual area
- Lateral geniculate body
- Optic radiation
- Optic tract

Ans: E

92. Daily urine output in normal adult person is?

- 2.2L-3.3L
- 0.5L
- 1L
- 1.5L-2L
- 2L

Ans: D (Normally its 1ml/Kg/Hr.—which makes it around 1680ml in 70kg adult)

93. Cross-bridge of sarcomere in skeletal muscle are made up of?

- Troponin
- Myosin
- Actin
- Myelin
- Tropomyosin

Ans: B

94. Which of the following is a lactic acid oxygen debt?

- 3.5L
- 3L
- 2.5L
- 2L
- 5L

Ans: A

95. A pregnant woman came for her follow up antenatal visit at 24 weeks. Her Hb is 10.5 which was 12 initially. What is the cause of anemia?

- IDA
- Folate deficiency
- Normal physiological change
- Thalassemia
- Hemolytic anemia

Ans: C

96. A pt with end stage renal failure complains of pallor, fatigability and lethargy for the past 3 months. Bloods show Creat 4, Hb 7 with normal smear. What is the most likely cause of anemia?

- Iron deficiency
- Folate deficiency
- Granulocyte colony stimulating factor deficiency
- Pyridoxine deficiency
- Erythropoietin deficiency

Ans: E

97. A 30-year female presented with rigors and chills, high grade fever and not responding to treatment for more than 2 weeks. Diagnosis is?

- UTI
- Acute cystitis
- Chronic pyelonephritis
- Acute pyelonephritis
- Necrotizing cystitis

Ans: D

98. Ideal site for lumbar puncture is?

- Above L4
- Below L5
- Below L4
- Above L3
- Above L1

Ans: C "Kaplan" and First aid Says L4-L5 while other 3 sources including Davidson says L3-L4 is most common site. I am with L4-L5, even though L3-L4 is also right.

99. The feature of mild Carbon monoxide poisoning is?

- Decrease ability of O₂ to bind hemoglobin
- Decrease arterial PCO₂
- Decrease arterial O₂
- Hyperventilation
- Increase alveolar ventilation

Ans: A

100. The first step in thyroid hormone synthesis is?

- Iodination of tyrosine
- Formation of diiodotyrosine
- Oxidation of iodide
- Oxidation of free iodine
- Binding of iodine to tyrosine

Ans: C

101. IV Benzodiazepine will likely cause significant hypotension if given to?

- Morbidly obese patient
- Elderly age >65
- Pregnant
- Hypovolemia
- Diabetic

Ans: D

102. The slow waves in small intestinal smooth muscle cells are?

- Action potentials
- Phasic contractions
- Tonic contractions
- Oscillating release of cholecystokinin
- Oscillating resting membrane potentials

Ans: E

103. Disequilibrium and disturbance of ANS occurs in?

- Cushing reflex
- Meniere's disease
- Increase intracranial pressure syndrome
- Hyperhidrosis
- Cerebellar ataxia

Ans: B

106. Mature lymphocytes were found in a 60-year male with anemia, fever and recurrent infection history. The most likely cause is?

- 9:22 translocation
- 8:11 translocation

- 13:14 translocation
- 11:23 translocation
- 10:20 translocation

Ans: A

107. A young patient with fever and enlarged Jugulo-diaphragmatic nodes. These nodes drain which of the following?

- Submandibular gland
- Palatine tonsils
- Sublingual gland
- Parotid gland
- Para pharyngeal tonsil

Ans: B

108. Which of the following part of the brachial plexus has branches that supply the extensor muscles of the arm?

- Lateral cord
- Medial cord
- Thoracodorsal nerve
- Lateral and medial cord
- Posterior cord

Ans: E

109. A woman presented with vulvar itching and yellow/green frothy, purulent vaginal discharge. What is the likely cause?

- Chlamydia
- Gonorrhea
- Lactobacillus
- Trichomonas vaginalis
- E. coli

Ans: D

110. The deficiency of which of the following is associated with cardiomyopathy?

- Biotin
- Thiamine
- Niacin
- Vit K
- Vit C

Ans: B

111. How do erythrocytes prevent from oxidative stress?

- Enzymes in mitochondria
- Enzymes in cytoplasm
- HMP shunt
- Ankyrin and spectrin
- G6PD

Ans: C

112. Which is the most potent anti-oxidant?

- Vit C
- Glutathione
- Vit E
- Transferrin
- Vit D

Ans: B

113. Which of the following anti tuberculosis drugs can cause hyperuricemia?

- Pyrazinamide
- Streptomycin
- Rifampicin
- Ethambutol
- Isoniazid

Ans: A

114. During its course in the upper limb, the median nerve lies:

- Anterior to the flexor retinaculum of the wrist
- In front of the lateral epicondyle of the humerus
- Within the quadrangular muscle space
- Medial to the brachial artery in the cubital fossa
- Against the surgical neck of the humerus

Ans: D

115. Lesion in which area is most commonly associated with Parkinson disease?

- Cerebellum
- Substantia nigra
- Globus pallidus
- Putamen
- Caudate nucleus

Ans: B

116. A k/c of rheumatic mitral stenosis develops fever, lassitude, body ache after tooth extraction. Subacute bacterial endocarditis is suspected. The most likely organism to be present in blood culture would be?

- H. influenza
- Staph aureus
- Strep viridans
- Strep faecalis
- Strep pneumonia

Ans: C

117. Relation of Facial nerve after emerging from Stylomastoid foramen and approaching parotid gland?

- Runs between styloid and mastoid
- Lies superficial to parotid
- Lies posterior to parotid
- Deep to muscular aponeurotic system
- Posterior to anterior belly of digastric

Ans: C (it's actually Anterior to posterior belly of digastric—so if that is in option prefer that—just thinking that someone might have recalled option E incorrectly)

118. A 5-week pregnant lady gets infected with German measles. Which of the complication will the baby likely develop?

- Congenital cataract
- Aortopulmonary defect
- Deafness
- Mental retardation
- Spina bifida

Ans: A

119. Which is the derivative of 3rd arch?

- Meckel's cartilage
- Stylohyoid muscle
- Thyroid cartilage
- Stylopharyngeus muscle
- Mylohyoid muscle

Ans: D

120. A 58-year old man is admitted to the hospital with acute heart failure and pulmonary edema. Which one of the following drugs would be most useful in treating the pulmonary edema?

- Digoxin
- Furosemide
- Dobutamine
- Minoxidil
- Spironolactone

Ans: B

121. Ca of greater curvature of the stomach will likely spread to which lymph node?

- a. Right gastroepiploic
- b. Splenic
- c. Celiac node
- d. Superior mesenteric
- e. Hepatic

Ans: C

122. Regarding adult hemoglobin:

- a. 2 alpha, 2 gamma
- b. Doesn't not contain carbon dioxide
- c. Contains less iron than myoglobin
- d. Does not bind to oxygen
- e. 2 alpha, 2 beta

Ans: E

123. A 45-year patient on digoxin therapy for CCF develop sign and symptoms of digoxin toxicity. Blood analysis show digoxin level to be at 4 nanogram/ml. How long should digoxin (plasma half-life 36 hours) be withheld so that the plasma level falls to a safe & therapeutically effective contraction of 1 nanogram/ml?

- a. 48 hours
- b. 72 hours
- c. 36 hours
- d. 60 hours
- e. 108 hours

Ans: B

124. The structure most likely to be affected by pus in the adductor canal is?

- a. Femoral vein
- b. Great saphenous vein
- c. Medial circumflex vein
- d. Profunda femoris vein
- e. Superficial femoral artery

Ans: A

125. Scenario of female with painful joints, Herberden's nodes and other findings of joint inflammation associated with amyloidosis with Congo red stain. What will be the joint finding?

- a. Transthyretin
- b. Amyloid precursor protein
- c. Amyloid associated protein
- d. Lambda light chain

Ans: C

126. A pregnant lady presented with jaundice. Ultrasound abdomen was normal. The most useful serum enzyme assay in this patient is?

- a. Alanine transaminases
- b. Alkaline phosphatase
- c. AST
- d. GGT
- e. CK

Ans: D

127. The antibody binding site is formed primarily by?

- a. The constant region of H and L chain
- b. The hyper variable region of H chain
- c. The variable region of H chains
- d. The variable regions of chains
- e. The hypervariable region of H and L chain

Ans: E

128. Myasthenia gravis has following type of hypersensitivity?

- a. Type 2
- b. Type 1
- c. Type 4
- d. Type 3

Ans: A

129. A patient after penetrating abdominal injury was discharged on 12 weeks antibiotic course and 3 weeks TPN. He now presents with ecchymosis. Bloods show normal platelet count and PT 19. What is the most likely cause?

- a. Carcinoma
- b. Vit K deficiency
- c. DIC
- d. Sepsis
- e. Vit D deficiency

Ans: B

130. A patient having loss of motor tone in his right arm and leg with increased reflexes and positive Babinski's sign. Lesion will be at?

- a. Left Broadman area 4
- b. Medullary pyramid level
- c. Left internal capsule
- d. Corticospinal tract

Ans: C

131. Characteristic sign of cerebellar disease is?

- Dysidiadokokinesia
- Muscle paralysis
- Dysarthria
- Nystagmus
- Dysmetria

Ans: A (this could be a poor recall by the students as most of the options are features of cerebellar disease but still I have to choose one—u can expect it from CPSP @ I would choose option A)

132. Pellagra is caused due to deficiency of?

- Niacin
- Biotin
- Vit C
- Vit B6
- Folic acid

Ans: A

133. A soldier presented with 3 month hx of fever, easily fatigability, O/E B/L lymphadenopathy and hepatosplenomegaly present. Blood reveal he also has anemia. He gives history of sleeping on the floor getting bit by some fly. The final diagnosis is?

- CML
- Filariasis
- Schistosomiasis
- Kalazar (leishmaniasis)
- Malaria

Ans: D

134. Which enzyme deficiency causes Pompe disease?

- Glucose 6 phosphatase
- Lysosomal alpha glucosidase enzyme
- Glucoronyl transferase
- Alpha ketoacid decarboxylase
- Ceramidase

Ans: B

135. ECG shows progressive prolongation of PR interval in successive beats followed by dropped heartbeat. Diagnosis is?

- Mobitz 2 AV block
- Atrial flutter
- Mobitz 1 Av block
- Complete AV block
- 1st degree AV block

Ans: C

136. A middle aged woman with complaints of pain in hands making her unable to perform activity. In 6 years' her hands started to deform and she had nodules on extensor surface. The most likely diagnosis is?

- Gout
- Pseudo gout
- Multiple myeloma
- Osteosarcoma
- RA

Ans: E

137. The most common side effect of Levodopa?

- Orthostatic hypotension
- Glaucoma
- Mood changes
- Acromegaly
- Hypertension

Ans: A

138. A house officer is ordered to send sample of ABG of a patient in ICU. Sample should be taken from?

- Venous whole blood in Heparinized tube
- Arterial whole blood
- Arterial whole blood in Heparinized tube
- Venous whole blood

Ans: C

139. In fetal life, shunting of blood between pulmonary trunk and aorta occurs through?

- Patent ductus venosus
- Truncus arteriosus
- Foramen ovale
- Patent ductus arteriosus
- Foramen Botalli

Ans: D

140. A patient presented with sore throat and fever. O/E tonsils were inflamed. The most likely mediators in this process are?

- Bradykinin
- TNF and interleukin 1
- Mast cells
- Histamine
- Eosinophils

Ans: B

141. A patient had an abscess on his arm. Thick yellow pus was drained from it. Which cells mainly make up pus?

- a. Lymphocytes
- b. Plasma cells
- c. Eosinophils
- d. Fibrous cells
- e. Neutrophils

Ans: E

142. Most serious complication of estrogen in postmenopausal women?

- a. Endometrial CA
- b. Thromboembolism
- c. Infections
- d. Fractures
- e. Osteoporosis

Ans: A

143. Which of the following artery takes part in forming the circle of Willis?

- a. Vertebral
- b. Posterior communicating
- c. External carotid
- d. Anterior inferior cerebellar artery

Ans: B

144. If CO₂ production rate is kept constant and ventilation is reduced to one half, then?

- a. pO₂ half
- b. pCO₂ double
- c. pCO₂ will increase by 16 times
- d. pO₂ double
- e. pCO₂ decrease by half

Ans: B

145. Nerve supply to adrenal medulla is from?

- a. Preganglionic greater splanchnic nerve
- b. Superior mesenteric plexus
- c. Inferior mesenteric
- d. Post ganglion Renal and cardiac plexus
- e. Post ganglion celiac plexus

Ans: A

146. A patient on radiotherapy later develops DNA damage. A gene which normally arrest the cell cycle at G₁ for repair is absent leading to defective unregulated growth. Which of the following could it likely be?

- a. K-ras
- b. p53
- c. N-myc
- d. Bcl-2
- e. ANCA

Ans: B

147. A man presented with headache, furuncle on tip of nose, high fever with redness and swelling of eye and increased ICP. Diagnosis?

- a. Cavernous sinus thrombosis
- b. Ophthalmic vein thrombosis
- c. Lateral sinus thrombosis

Ans: A

148. On microscopic slide of lymphatics, bacteria are found. What will lymphatics do?

- a. Present antigen to APC
- b. Emigration of neutrophils
- c. Infection clearance from lymph by draining

Ans: C

149. Molecules of rRNA is synthesized in?

- a. Nucleolus
- b. RER
- c. SER
- d. Nucleus
- e. Cytoplasm

Ans: A

150. Surgical gloves allergy is due to?

- a. Protein
- b. Talc
- c. Polyisoprene (latex)

Ans: C

151. Pus contains

- a. Dead Neutrophils
- b. Dead bacteria
- c. Dead lymphocytes

Ans: A

152. Pt died of MI, on autopsy neutrophils with necrotic area seen after?

- a. 12 hours
- b. 24 hours
- c. 48 hours
- d. 78 hours

Ans: C

153. What type of motor fibers are given by the pyramidal tract?
- Alpha & gamma motor
 - Motor inhibition fibers

Ans: A

154. The most potent inhibitor of insulin is?
- Beta blocker
 - Decrease K
 - Beta agonist
 - Somatostatin
 - Glucagon

Ans: D

155. Which of the following hormone exhibits a relation between weight and puberty?
- Leptin
 - ACTH
 - Cortisol
 - Estradiol
 - Progesterone

Ans: A

19th November 2019 Medicine Night

1. Bifurcation of common carotid artery occurs at?
- Level of trapezius
 - The inferior border of thyroid cartilage
 - The upper border of thyroid cartilage
 - Level of cricoid
 - Jugular notch

Ans: C

2. HLA-B27 is associated with?
- Reiter's syndrome
 - SLE
 - RA
 - Bud Chiari
 - Reye syndrome

Ans: A

3. Where is the antibody targeted in Lambert-Eaton syndrome?
- Anticholinesterase
 - Mitochondria
 - Sodium channels
 - Potassium channels
 - Voltage-gated calcium channels

Ans: E

4. Pt with severe vomiting and diarrhea

for 1 day presented with hypotension and respiratory rate 22. Hyponatremia and hypokalemia is the diagnosis?

- Metabolic alkalosis
- Metabolic acidosis
- Respiratory acidosis
- Respiratory alkalosis
- Renal tubular acidosis

Ans: A

5. A pregnant lady during her 3rd trimester presents with thyrotoxicosis. The drug of choice for her will be?
- Methimazole
 - Radioliodine
 - Beta blocker
 - Propylthiouracil

Ans: A

6. A 14-year-old boy gets his finger cut by a knife. Which one of the following is primary/early mediator of acute inflammatory response in blood?
- IL 1
 - Bradykinin
 - Histamine
 - Prostaglandin
 - Platelet activating factor

Ans: C

7. Facial infections can spread to cavernous sinus via?
- Inferior ophthalmic vein
 - Supraorbital vein
 - Supratrochlear vein
 - Facial vein
 - Superior ophthalmic vein

Ans: E (both infection and thrombosis spread via superior, key has been used in the group which previously was not acc to snell recent edition)

8. A baby with recurrent chest infections. Blood samples show hyper IgE and slightly low IgG. What is the likely diagnosis?
- Chronic granulomatous disease
 - Chédiak-Higashi syndrome
 - Jobs syndrome
 - Budd Chiari syndrome

Ans: C

9. In the 7th month of pregnancy, estrogen and progesterone are produced by?

- Corpus luteum
- Placenta
- Fetal adrenal
- Uterus
- Fallopian tubes

Ans: B

10. Regarding Beta-HCG, which is the most appropriate:

- A pentagon amino acid
- Secreted by trophoblast after implantation
- A beta subunit similar to FSH
- Involved in preservation of corpus luteum
- Reaches peak at 20 week

Ans: D

11. Increase pulmonary vasoconstriction cause by.

- High altitude
- Low altitude
- Emphysema
- Exercise

Ans: A

12. Heparin monitoring is done by?

- APTT
- PT
- INR
- BT
- CT

Ans: A

13. A man had MI and died after 5 days. On autopsy, histological features show which of the following?

- Lymphocyte
- Plasma cells
- Basophils
- Neutrophils
- Macrophages

Ans: E

14. Most common anomaly in premature infants is?

- Coarctation of aorta
- PDA
- Pulmonary stenosis
- Situs inversus

Ans: B

15. True about normal adult hemoglobin contains

- HbA2 90%
- HbA2 1%
- HbA1 10%
- HbA2 3%
- HbF 100%

Ans: D

16. Angina pectoralis pain is more common in which valvular disease?

- Mitral stenosis
- Aortic regurgitation
- Mitral regurgitation
- Tricuspid regurgitation
- Aortic stenosis

Ans: E

17. A 60-year farm worker presented with ascitic. Ascitic fluid was hemorrhagic and contained malignant cell. Liver biopsy showed Angiosarcoma. The most probable cause is?

- Arsenic
- Aflatoxin
- Aromatic amine
- Hydrocarbon
- Vinyl chloride

Ans: A

18. Which of the following is caused by aflatoxin?

- Liver adenoma
- Cholangiocarcinoma
- Hepatocellular carcinoma
- Angiosarcoma
- Fibroma

Ans: C

19. Which of the following has the LEAST renal clearance?

- Na
- Glucose
- K
- Inulin
- PAH

Ans: B

20. A patient with a deep knife wound in the buttock walks with a waddling gait that is characterized by the pelvis falling toward one side at each step. Which of the following nerves is damaged?

- Obturator nerve
- Iliotibial nerve
- Inferior gluteal nerve
- Superior gluteal nerve
- Femoral nerve

Ans: D

21. Maxillary artery is a derivative of?

- 1st arch
- 2nd arch
- 2nd pouch
- 3rd arch
- 5th arch

Ans: A

22. Feature of a well differentiated squamous cell carcinoma are?

- Hyperchromatism
- Keratin pearls
- Caseous material
- No relevance with parent cell
- Cytokeratin

Ans: B

23. Which of the following is a tumor suppressor gene?

- RAS
- BCL 2
- C-myc
- AFP
- p53

Ans: E

24. A 28 years' pregnant lady, who is Rh negative gives birth to a Rh negative baby. She has history of allergic reactions. Due to bleeding, she was advised transfusion but she was transfused Rh Positive blood accidentally. Which of the following is true?

- Anti D antibody should be given immediately to the lady
- Next baby may develop hemolytic anemia
- Transfusion reaction will occur
- No immediate or long term effect will occur

Ans: C

25. Assessment of muscle injury is done by which marker?

- Myoglobin
- CK-MB
- CK-BB
- CK-MM
- LDH

Ans: D

26. Regarding autosomal dominant

- Male are more affected
- 50% children will be affected
- Unaffected child of the affected parent will transmit the disease
- Affected individuals are heterozygous

Ans: B

27. A chronic smoker from 30 year working in a plastic factory presents with painless hematuria.

Histopathology show transitional carcinoma of bladder. The most common cause is?

- Aromatic amine
- Smoking
- Nitrates
- S. hematobium
- Carbon

Ans: B

28. A 40-year known alcoholic male in lab shows Raised ALP and bilirubin. ALT was raised twice than normal and GGT was raised 6 times than normal. What will be seen on microscopic examination of liver?

- Councilman bodies
- Bridging necrosis
- Cholestasis
- Periportal fibrosis with lymphocytosis
- Piecemeal necrosis

Ans: E

29. An old man had non-streaked wheeze in the lower pleural hyper with some most likely

Ans: C

30. A young man has severe shortness of breath

Ans: C

31. A young man has severe shortness of breath

29. An old man with no other risk factors had non-productive cough for 2 months. Now presented with blood streaked sputum. O/E he has bilateral wheeze. CXR shows 5 cm hilar mass in the left lung with hemorrhagic pleural effusion. Sputum shows hyper chromatic, pleomorphic cells with scanty cytoplasm. What is the most likely cause?

- Silicosis
- Asbestosis
- Smoking
- Passive smoking
- Radon exposure

Ans: C

30. A young soldier came back from Thailand with torrential diarrhea for several weeks O/E of the stool it shows donut shaped cysts. What is the most likely cause?

- Blastocystosis
- Giardiasis
- Cryptosporidium
- Coccidiomycosis

Ans: C

31. A patient known case of HIV is on immunosuppressive drugs presents with high grade fever, neck rigidity, +ve Kerning. CSF studies show normal glucose, lymphocytes 80% and organisms with a halo around it. The most likely organism is?

- Cryptococcus Neoformans
- EBV
- Staph Aureus
- Klebsiella
- E. coli

Ans: A

32. The release of Ectopic parathyroid hormone is associated with?

- Adenocarcinoma of stomach
- Bronchial carcinoid tumor
- Small cell carcinoma
- Ca of larynx
- Squamous cell Ca of lung

Ans: E

33. Loss of accommodation reflex, lesion in?

- Pons

- Medulla
- Midbrain
- Cerebrum
- Diencephalon

Ans: C

34. A 19-year-old presents with 5 days of fever ($38^{\circ}\text{C}/101^{\circ}\text{F}$) and sore throat. She also complains of fatigue for the past week and difficulty in swallowing. O/E she has generalized lymphadenopathy and biopsy shows atypical lymphocytosis. What is the likely cause?

- HIV
- CMV
- TB
- EBV
- Malaria

Ans: D

35. Which of the following ATT is not safe in pregnancy?

- Pyrazinamide
- Ethambutol
- Rifampicin
- Isoniazid
- Streptomycin

Ans: E (E>A)

36. Most common cause of vaginal infection in last trimester of pregnancy is?

- Candida
- Actinobacter
- Chlamydia
- Listeria monocytogenes
- Aspergillus

Ans: A

37. Upper and lower limit of cerebral blood flow Autoregulation?

- 25-125 mm Hg
- 50-150 mm Hg
- 60-160 mm Hg
- 50-160 mm Hg
- 50-200 mm Hg

Ans: B (try to note unit if mL/min given then its different value—search it and remember)

38. A female patient presents with submucosal bleed and low platelet count. She was diagnosed as a case of immune thrombocytopenic purpura and was started on IVIGs and transfused platelets. What is the mechanism of action of IVIG?

- Inhibit antibody production by B lymphocyte
- Stimulate neutrophils to form antibodies
- Fc portion of receptors blockage
- CD4 cells
- T cells

Ans: C

39. During its course in upper limb, the radial nerve lies:

- Head of humerus
- Posterior to flexor retinaculum
- Anterior to medial epicondyle
- Spiral groove of humerus

Ans: D

40. Which of the following anti tuberculosis drugs can cause Hyperuricemia?

- Streptomycin
- Rifampicin
- Ethambutol
- Isoniazid
- Pyrazinamide

Ans: E

41. Epithelium of the urinary bladder derived from?

- Ectoderm
- Endoderm and mesoderm
- Mesoderm
- Endoderm
- Neural crest cells

Ans: B

42. Blood supply of epicardium is by?

- Coronary arteries
- Pericardiophrenic artery
- Musculophrenic artery
- Internal thoracic artery
- Marginal artery

Ans: A (A>B)

43. The conducting system of the heart lies in?

- Epicardium
- Endocardium

- Sub endocardium
- Myocardium
- Sub epicardium

Ans: C

44. Land mark of thyroid gland is at the level of?

- C6 to T4
- C5 to T1
- C4
- C3
- T1 to T3

Ans: B

45. Which following has a prominent pre-potential?

- Atrial muscle cells
- Bundle of His
- Purkinje fibers
- Ventricular muscle cell
- SA node

Ans: E

46. True regarding fat embolism is:

- 80% fatal
- Common cause of thrombophlebitis
- More common in females
- Symptoms appear after 12 hours
- Causes fat necrosis

Ans: D

47. A diabetic with jaw draining abscess. Histological findings seen will be?

- Granuloma with Abscess
- Non caseating granuloma
- Abscess formation
- Caseating granuloma
- Abscess with plasma cells

Ans: A

48. A female patient presented to OPD with complain of primary amenorrhea. O/E she has normal well developed breast and a short blind vagina. USG confirms the absence of uterus. What will be the karyotype?

- 47 XXX
- 46 XX
- 46 XY
- 45XO
- 47 XXY

Ans: C

48. Common cause of breast fat necrosis is?
- Enzyme
 - Trauma
 - Ischemia
 - Drugs
 - Mastitis

- Ans: B
49. Which hormone is released in the dark and has anti-gonadotrophic activity?

- Inhibin
- Prolactin
- Cortisol
- TSH
- Melatonin

- Ans: E
50. Which of the following will be released in stress due to surgery?

- Epinephrine
- Norepinephrine
- Serotonin
- ACTH
- GH

- Ans: D
51. The type of neuron present in spinal sensory ganglia is?

- Pseudo unipolar
- Multiple
- Bipolar
- Unipolar
- Golgi type 1

- Ans: A
52. Which of the following is the most potent pain mediator?

- Prostaglandin
- Histamine
- Bradykinin
- Mast cells
- IL 1

Ans: C

53. Lymphocytes from blood enter lymph node via?

- Pre-capillary venules and medulla
- Sub capsular afferent lymphatics in cortex
- Post venules

Ans: B

54. The best parameter for fluid resuscitation in hypovolemic shock is?

- Decrease in tachycardia
- Decrease in thirst
- Increase in arterial oxygenation
- Increase in blood pressure
- Increase in urine output

Ans: E

55. Which is an autosomal dominant disease?

- Hemarthrosis
- Albinism
- Cystic fibrosis
- Huntington disease
- Grigler-najjar syndrome-I

Ans: D

56. Class 3 antiarrhythmic is?

- Lignocaine
- Beta blocker
- Amiodarone
- Quinidine
- Phenytoin

Ans: C

57. A 35-year-old man is having bilateral ptosis of eye during evening since last few weeks. The confirmatory test of the diagnosis will be?

- Tensilon test
- Ach Receptor antibody test
- Blood culture
- CT scan

Ans: B (Ref: Medscape The anti-acetylcholine receptor (AChR) antibody (Ab) test is reliable for diagnosing autoimmune myasthenia gravis (MG). It is highly specific (as high as 100%, according to Padua et al)

58. Right gastric artery is a branch of?

- Gastrooduodenal artery
- Splenic artery
- Hepatic artery
- Left hepatic artery

Ans: C

59. Regarding HLA antigen:

- Antibodies produced by liver
- Cause autoimmune disorders
- Transfusion reaction
- Can cause graft rejection
- Has 3 major classes MH 1, MHC2, MHC 3

Ans: D

61. The lymph drainage of the skin covering the medial side of the knee joint is into the?

- a. Popliteal nodes
- b. Internal iliac nodes
- c. Horizontal group of superficial inguinal nodes
- d. Obturator nodes
- e. Vertical group of superficial inguinal nodes

Ans: E

62. Loss of inversion of foot but able to Evert. Muscles damaged are?

- a. Extensor hallucis longus and flexor hallucis
- b. Tibialis anterior and extensor hallucis longus
- c. Tibialis anterior and Tibialis posterior
- d. Flexor hallucis longus
- e. Extensor hallucis longus

Ans: C

63. Anomic aphasia occurs due to lesion in?

- a. Broca area of non-dominant hemisphere
- b. Wernicke
- c. Angular gyrus
- d. Motor cortex
- e. Frontal lobe

Ans: C

64. Agranular cerebral cortex is present in?

- a. Auditory area
- b. Primary motor area
- c. Gustatory area
- d. Secondary visual area
- e. Somatic sensory area

Ans: B

65. Lowest testosterone levels are present in?

- a. Old age
- b. Fetal
- c. Infancy
- d. Preschool
- e. Neonatal

Ans: D

66. Mechanism of action of Benzodiazepine is?

- a. Inhibit GABA
- b. Open Na channel

- c. Potentiate NMDA receptor
- d. Activate glutamate
- e. Facilitate GABA

Ans: E

67. Propylthiouracil is the drug of choice in?

- a. Graves with hepatic insufficiency
- b. Graves with SLE
- c. Grave disease in 1st trimester
- d. Toxic multinodular goiter
- e. Graves in pediatric patients

Ans: C

68. A patient admitted in endocrinology ward has the following labs. Potassium: 3 and Na: 150 and pH 7.45. He is most likely having an excess of which hormone?

- a. Aldosterone
- b. Cortisol
- c. Testosterone
- d. ACTH
- e. ADH

Ans: A

69. Which of the following anti-malarial drug is used for treatment of Chloroquine-resistant uncomplicated falciparum malaria?

- a. Doxycycline
- b. Artemisinin with combination
- c. Pyrimethamine
- d. Mefloquine
- e. Primaquine

Ans: B

70. Anatomical landmark of neck muscle is?

- a. Infrahyoid
- b. Suprahyoid
- c. Levator scapulae
- d. Scalenus anterior
- e. Trapezius

Ans: D

71. A child who is Apathic, has edema and skin lesion. The cause of edema is decrease levels of?

- a. Alpha globulin
- b. Gamma globulin
- c. Fibrinogen
- d. Heparin
- e. Albumin

Ans: E

Ans: B
 70. Which placental type has the shortest post-embryonic phase?

- Placenta
- Vivex
- Placental
- Cord

Ans: C
 71. A patient presented with left sided limb paralysis, paralysis of right lower face and homonymous hemianopia. Lesion is present in?

- Basilar pons
- Forebrain
- Midbrain
- Medulla
- Thalamus

Ans: A
 72. Lymph from the fundus of stomach will drain into which node?

- Right gastroepiploic
- Celiac nodes
- Superior mesenteric
- Inferior mesenteric
- Paracolic

Ans: B (Pancreatic-splenic nodes drain fundus of stomach which then drains into celiac nodes)

73. All fibers of optic nerve terminate in?

- Visual cortex
- Medial geniculate body
- Optic tract
- Lateral geniculate body
- Optic chiasma

Ans: D

74. Which type of hypoxia is associated with decreased PO₂ and increased A-a gradient?

- Anemia
- High altitude
- Emphysema
- Hypoventilation
- Right to left shunt

Ans: E

75. A patient develops partial ptosis and dilated pupil of the right eye. What is the reason of this presentation?

- Horner syndrome
- Trochlear nerve palsy
- Oculomotor nerve palsy
- Optic nerve damage
- Ophthalmic nerve palsy

Ans: C

76. A 55-year female patient parkinsonism treatment

- Start levodopa early to halt disease progression and early recovery
- Give Anticholinergics before giving levodopa
- Start on Dopamine and carbidopa
- Do not give her levodopa

Ans: A

77. Exposure to vinyl chloride is associated with which of the following?

- Hepatic adenocarcinoma
- Hepatic angiosarcoma
- Hepatoma
- Bronchogenic carcinoma
- Cholangiocarcinoma

Ans: B

78. Muscle paresis will be seen in upper motor neuron lesion of which of the following?

- Brain and spinal cord
- Brain stem
- Basal ganglia
- Cerebellum
- Corticospinal and corticobulbar tracts

Ans: E

79. Which of the following is true about Rickettsia?

- Atypical cell-wall and gram negative bacteria
- Grows on 7% sheep blood agar
- Normal flora in mosquito
- It has limited energy production and doesn't have glycolytic enzyme
- Sensitive to penicillin

Ans: D

80. Tactile two-point discrimination is done by?

- Merkel disc
- Pacinian corpuscle
- Meissner corpuscles
- Ruffini
- Hair follicles

Ans: C

83. Which of the following is most likely to be the first visible gross evidence for the formation of an atheroma?

- Fatty streak
- Thrombus
- Calcification
- Hemorrhage
- Exudate

Ans: A

84. Micturition reflex is integrated in?

- Brainstem
- Sacral segments of spinal cord
- Hippocampus
- Lumbar segments of spinal cord
- Initiated by higher centers

Ans: B

85. The epithelium of terminal bronchiole is made up of?

- Stratified squamous without goblet cells
- Pseudostratified with submucosal cell
- Pseudostratified with goblet and submucosal cells
- Simple columnar cells without goblet cells
- Pseudostratified columnar without goblet cells

Ans: E

86. Which factor would best distinguish an otherwise healthy person with severe water deprivation from a person with SIADH?

- Urine osmolality
- Circulating plasma ADH levels
- Serum osmolality
- Free water clearance
- Cortico-papillary osmotic gradient

Ans: C

87. A 60-year male admitted in medical ward with ischemic heart disease complains of palpitation, dyspnea, sinking of heart and syncope. ECG shows abnormal QRS Complex with rate between 140 and 200 per minute. The best treatment option will be?

- Amiodarone
- Disopyramide
- Digoxin

- Lidocaine
- Theophylline

Ans: D (if ischemic heart disease Lidocaine > Amiodarone)

88. The daily dietary protein requirement per kg is?

- 2 gm
- 1 gm
- 3 gm
- 0.5 gm
- 4 gm

Ans: B

89. Drug of choice for gastroparesis in diabetic patients?

- Metoclopramide
- Ondansetron
- Loperamide
- Omeprazole
- Cimetidine

Ans: A

90. A middle aged man had a myocardial infarction. Which of the following condition is he most likely to develop in the next 24 hours?

- Complete recovery without any complications
- Cardiac tamponade
- Ventricular aneurysm
- Cardiac wall rupture
- Ventricular arrhythmias

Ans: E

91. Which of the following is a premalignant condition?

- Junctional nevus
- Condyloma
- Intradermal nevus
- Dysplastic nevus
- Chancre

Ans: D

92. A patient called for follow up. Pap smear showed Atypical giant cells with nuclear chromasia and koilocytes. What condition is the patient likely suffering from?

- Metaplasia
- Metastasis
- Hypertrophy
- Dysplasia
- Anaplasia

Ans: D

93. Which of the following shows complete ventricular depolarization on ECG?

- a. QRS complex
- b. ST segment
- c. PR interval
- d. T wave
- e. QTc interval

Ans: B

94. An old lady with Cushing syndrome. What will be characteristics features present?

- a. Purple bluish abdominal striae
- b. Hyperpigmentation
- c. Pot belly
- d. Amenorrhea
- e. Osteomyelitis

Ans: A

95. The axillary sheath is a continuation of?

- a. Pretracheal fascia
- b. Clavipectoral fascia
- c. Carotid sheath
- d. Superficial fascia
- e. Prevertebral fascia

Ans: E

96. Which of the following are spread via air borne transmission?

- a. TB
- b. Diphtheria
- c. Anthrax
- d. SARS
- e. Meningitis

Ans: A (actually first 3 options are all air borne diseases—I am choosing A—as it is the most common ☺)

97. An ECG shows ventricular extra systole. The next normal ventricular contraction that occur after extra systole would produce?

- a. Increase pulse pressure due to increase in TPR
- b. Increase pulse pressure due to decrease in compliance of veins
- c. Decrease pulse pressure due to increase in contractility of ventricle
- d. Increase pulse pressure due to increases in contractility of ventricle

e. Decrease pulse pressure due to decreased TRP
Ans: D (note the word after extra systole)

98. Following are effect of parasympathetic activity, except?

- a. Copious secretion from glands
- b. Reduce heart rate
- c. Relax GIT sphincter
- d. Bronchoconstriction
- e. Inhibits secretin

Ans: E

99. During rest, in a well-trained athlete, there is increase in?

- a. Stroke volume
- b. Arterial BP
- c. Cardiac output
- d. Heart rate
- e. Sympathetic activity

Ans: A

100. Which of the following is abundant in the plasma?

- a. Ig M
- b. Ig A
- c. Ig E
- d. Ig D
- e. Ig G

Ans: E

101. Which of the following is a spore forming bacteria?

- a. Corynebacteria
- b. Chlamydia
- c. Clostridium
- d. Mycobacterium
- e. Actinomyces

Ans: C

102. The first pass metabolism of a drug can be avoided if given via?

- a. Per rectal
- b. Per oral
- c. IV
- d. IM
- e. Sublingual

Ans: E (even though suppository, intravenous, intramuscular, inhalational aerosol, transdermal and sublingual are all alternative routes to avoid first pass metabolism ☺)

103. A patient lost 1.5L blood in a road traffic accident. He now presents to you with anemia. The anemia is most likely?

- Microcytic hypochromic
- Normocytic normochromic
- Macrocytic hypochromic
- Microcytic normochromic
- Macrocytic hypochromic

Ans: B

104. The definitive diagnostic lab test for the infection by Beta streptococcus is?

- ASO titer
- Blood culture
- ESR
- Leukocytes culture
- Urine for bile pigment

Ans: B

105. The use of long term steroids leads to increased risk of?

- Repeated infections
- Decreased wound healing
- Bleeding
- Weight loss
- Osteoporosis and bone fractures

Ans: E

106. The secretory hormones from neurohypophysis are stored in?

- Pituicytes
- Herring bodies
- Pinealocytes
- Nerve ending
- Astrocytes

Ans: A

107. A young medical student already holding 3 books want to pick up a fourth book from the library. Upon holding the fourth book, she drops all the book. This is most likely due to?

- Stretch reflex
- Withdrawal reflex
- Inverse stretch reflex
- Flexor reflex
- Extensor reflex

Ans: C

108. A young healthy man he lifts 150 LB weight and holds it there for 5 seconds, suddenly his arms give way and drops the weight to the floor. Which of the following receptors is

responsible for this sudden relaxation?

- Free Nerve Ending
- Golgi Tendon Organ
- Nociceptor
- Ruffini receptor
- Pacinian Corpuscle

Ans: B

109.

- Upper motor neurons lesion
- Exaggerated deep tendon reflex
 - Flaccidity paralysis
 - Negative Babinski

Ans: A

110.

Relation anterior to hilum of right kidney is?

- Hepatic flexure
- Liver
- Small intestine
- Suprarenal gland
- 2nd part of duodenum

Ans: E

111.

A patient taking supplements presents with complaints of headache, dryness of oral mucosa, nausea, weight loss and painful hyperostosis. Fundoscopy reveals B/L papilledema. Which supplement could likely be causing this?

- Calcium
- Vit A
- Fluoride
- Tocopherol
- Niacin

Ans: B

112.

Which of the following ligament keeps the vertebral bodies in place?

- Supraspinous ligament
- Ligamentum flavum
- Transverse ligament
- Anterior and posterior ligament
- Interspinous ligament

Ans: D

113.

Liver is attached to anterior abdominal wall by which of the following?

- Hepato-gastric ligament
- Attachment of hepatic veins to IVC
- Ligamentum falciform
- Intra-abdominal pressure
- Attachment to diaphragm

Ans: C

HOTS PEARLS

114. The most common non-bacterial opportunistic organism recovered from burns is?

- Candida
- Aspergillus
- Fusarium
- Phycomycetes
- E. coli

115. A 6 months pregnant last with generalized weakness and lethargy presents with Hb 9.8, MCV 58, MCH 15 and serum ferritin 150 mcg/L. What is the most likely cause of anemia?

- Iron deficiency anemia
- Megaloblastic anemia
- Sideroblastic anemia
- Anemia of chronic disease

116. Drug of choice for amoebic liver abscess is?

- Ciprofloxacin
- Tinidazole
- Ceftriaxone
- Doxycycline
- Ceftazidime

Ans: B

117. During Voluntary muscle contraction:

- Both alpha and gamma motor neuron in ascending pathway are excited
- Spindles are unloaded and afferent fibres stop firing
- Both alpha and gamma motor neuron in descending pathway are excited
- The stretch reflex is suppressed
- Presynaptic inhibition

Ans: C

118. The land mark of mitral valve is?

- Right 2nd intercostal space
- Left 2nd intercostal space
- In the jugular notch
- 5th intercostal midclavicular space
- To the right of the xiphoid process

Ans: D

119. If supinator muscle is paralyzed, which muscle will compensate for it and still perform supination?

- Bicep brachii
- Brachioradialis
- Brachialis
- Anconeus
- Triceps

Ans: A

120. Dorsal nucleus of vagus nerve is present in?

- Upper pons
- Lower pons
- Midbrain
- Cerebrum
- Medulla

Ans: E

121. A person has tremors during voluntary activity. The lesion is most likely in?

- Substantia nigra
- Cerebellum
- Cerebrum
- Pons
- Frontal lobe

Ans: B

122. ECG of a patient in ER shows prolonged PR interval, inverted T waves with prominent U waves. What is the abnormality?

- Hyperkalemia
- Hypocalcemia
- Hypokalemia
- Hypernatremia
- Hyponatremia

Ans: C

123. The most common source of systemic emboli is?

- Femoral vein thrombosis
- Pulmonary vein thrombosis
- Right atrial thrombus
- Left ventricular mural thrombus
- Portal vein thrombus

Ans: D

124. A patient brought to ER with severe headache, vomiting and stiff neck. He was diagnosed with raised intracranial pressure. LP revealed blood stained CSF. What could be the possible site of hemorrhage?

- Acute subdural hemorrhage
- Cerebral hemorrhage
- Chronic subdural hemorrhage
- Extradural hemorrhage
- Sub arachnoid hemorrhage

Ans: E

125. A 54 yrs old male went to doctor with complaint of weakness of left half of body. O/E he had tremor of left hand at end of movement. Muscular hypotonia of left limbs and tendency to fall upon left side. All cranial nerves were intact. Neurological lesion is located in?

- Left Cerebellar
- Left Caudate and putamen
- Precentral gyrus
- Red nucleus
- Right cerebellar

Ans: A

126. Which of the following increases contraction of gall bladder?

- Secretin
- CCK
- Gastrin
- VIP
- GIP

Ans: B

127. Thoracic duct drains into?

- Left brachiocephalic vein
- Right brachiocephalic vein
- Junction of left subclavian and internal jugular vein
- Left subclavian
- Right internal jugular

Ans: C

128. Which of the following vessel contains maximum oxygen level?

- IVC
- SVC
- Umbilical artery
- Umbilical vein
- Placenta

Ans: D

129. In DVT, the emboli first get lodged into which of the following?
- Pulmonary vein
 - IVC
 - Right atrium
 - Coronary vessels
 - Pulmonary artery

Ans: E

130. Thyroglobulin is synthesized by which cells?

- Principal cells
- Follicular cells
- Chromaffin cells
- Para follicular cells
- Beta cells

Ans: B

131. A 28 year soldier after returning from posting in high altitude for 1 year came with headache and peripheral cyanosis of fingers with PVC > 40. The most probable cause is?

- Polycythemia Vera
- Methemoglobinemia
- Secondary polycythemia
- Primary polycythemia
- Relative polycythemia

Ans: C

132. Which of the following is responsible for alkaline phosphatase production?

- Osteoblast
- Fibroblast
- Chondroblasts
- Osteoclast
- Osteocyte

Ans: A

133. A patient died of chronic renal failure. Which of the following structures will likely be hypertrophied on autopsy?

- Adrenal cortex
- Adrenal medulla
- Adrenal gland
- Parathyroid gland
- Thyroid gland

Ans: D

KOPS PEARLS

134. A patient with Hb 15, Oxygen content of Hb 20ml, Alveolar pO₂ 45, Arterial PO₂ 40, Venous oxygen 15. What type of hypoxia is this?

- Anemic hypoxia
- Stagnant hypoxia
- Histotoxic hypoxia
- CO poisoning
- Hypoxic hypoxia

Ans: E

135. A 55-year woman has felt increasingly lethargic over the past 3 or 4 years and has noticed that her eyes look 'yellow'. She has recently been diagnosed with hypothyroidism for which she takes replacement therapy. She has no previous medical history but occasionally takes chlorpheniramine. Which single autoantibody is most consistent with the diagnosis?

- Anti-centromere
- Anti-mitochondrial
- Anti-double-stranded DNA
- Anti-phospholipid
- Anti-smooth muscle

Ans: B

136. Confidence interval represent:

- Median and its standard deviation
- Mode and its standard error
- Mean and its standard deviation
- Mode and its standard error
- Standard deviation \pm mean

Ans: B

137. A person loses 2L of sweat while working and he drinks 2L of pure water. What change will occur in body?

- Decrease ICF volume
- Decrease ICF osmolarity
- Increase ECF osmolarity
- Increase ECF volume
- Decrease ECF osmolarity

Ans: B

138. A female patient presents with fever and altered mental status. Routine labs show with thrombocytopenia, Reticulocytosis, low Hb, Urea and Nitrogen are raised.

Peripheral smear show broken fragmented RBC. What is the likely diagnosis?

- ITP
- Bernard Soulier
- DIC
- TTP
- SLE

Ans: D

139. Poor prognostic factor in septic shock patient is?

- Vasodilation
- Organ hypoperfusion
- Edema
- Cardiogenic shock
- DIC

Ans: E

140. A girl of 11 yr was referred to X-ray department for x-ray of elbow joint to know age. The x-ray shall be of which area?

- Capitulum
- Lateral epicondyle
- Trochlea
- Medial epicondyle
- Ulnar

Ans: B

141. Micturition reflex is voluntary inhibited by a person through?

- Increase tone of trigone
- Increase tone of detrusor muscle
- Activation of pudendal nerve
- Activation of thoracolumbar plexus
- Activation of parasympathetic system

Ans: C

142. CO₂ is transported in blood (major form) in which of the following forms?

- HCO₃ form
- Dissolved form
- Carboxyhemoglobin form
- Within RBC
- Free

Ans: A

143. A marathon runner in July while running started sweating profusely and complaint of headache, dizziness, confusion and became unconscious. What is the likely cause?

- a. Heat exhaustion
- b. Dehydration
- c. MI
- d. Heat stroke
- e. Fatigue

Ans: A (heat exhaustion or over sweating—in heat stroke body temperature would be elevated and minimal or no sweating)

144. If the diameter of alveoli is reduced to half, what will be increased by 16 times?

- a. Pressure
- b. Volume
- c. Diameter
- d. Surface area
- e. Resistance

Ans: E

145. Regarding Aneuploidy

- a. Extra chromosome
- b. Increase or decrease number of chromosome instead of 46
- c. Increase in number of chromosome more than 46 chromosome
- d. Decrease in number of chromosome less than 46 chromosome
- e. Change in number of chromosome and deletion

Ans: B

146. The antigen processed by the exogenous epitope presentation pathway are presented with which one of following?

- a. T cell receptor
- b. FC receptor
- c. MHC class 2
- d. MHC class 1
- e. Ig heavy chain

Ans: C

147. Cytokeratin is an example of?

- a. Intermediate filament
- b. Intracytoplasmic cytoskeleton
- c. Microtubules

- d. Microfilaments
- e. Macro filaments

Ans: A

148. A female diagnosed as stage I carcinoma. She wants he doctor to disclose it to her family. The next day her daughter and son inquired about their mother illness. What should the physician do next?

- a. Give little information about disease
- b. Tell nothing about disease
- c. Ask them to ask from her mother
- d. Advise them not to interfere and let the patient decide what's best for him.
- e. Refuse to meet

Ans: B

149. In warfarin toxicity, which should be given?

- a. Blood transfusion
- b. Cryoprecipitate
- c. Platelets
- d. Vit K
- e. Vit D

Ans: D

150. Decrease in functional Hb as in anemia, carbon monoxide poisoning and Methemoglobinemia will not cause hyperoxia because?

- a. Stimulated by central receptor
- b. Arterial PO₂ increases
- c. Stimulated by carotid body
- d. Arterial oxygen content is kept in normal range
- e. Arterial PO₂ remains normal (not decreased)

Ans: E

151. An enzyme which joins two molecules together is a function of?

- a. Hydrolase
- b. Isomerase
- c. Synthetase
- d. Oxidoreductase
- e. Reductase

Ans: C

152. A baby brought by mother with complains of diarrhea and flatulence on/off after taking milk/ milk products. What is the likely diagnosis?

- Lactose intolerance
- Reflux disease
- Pyloric stenosis
- Celiac sprue
- Milk protein indigestion

Ans: A

153. Tumor marker for a person with colon carcinoma & no liver metastasis?

- CAA
- Carcinoembryonic
- AFP
- CA 125
- HCG

Ans: B

154. Upper 1/3rd of medulla has?

- Hypoglossal nucleus
- Nucleus of Tractus solitarius
- Nucleus ambiguus
- Dorsal nucleus of vagus
- Inferior olivary nucleus

Ans: C

155. A 14-year boy eats only fast food. His peripheral blood picture shows low Hb and raised MCV. What is the likely diagnosis?

- Pernicious anemia
- Iron deficiency anemia
- Megaloblastic anemia
- Anemia of chronic disease
- Folic acid deficiency

Ans: E

156. Which of these is a tumor suppressor gene correctly matched?

- P53 for Wilms tumor
- APC for colon cancer
- Wt1 for pancreatic cancer
- BRCA stomach cancer

Ans: B

157. The muscle which increase the transverse and anteroposterior diameter of thorax is

- Diaphragm
- External Intercostal
- Innermost Intercostal

Ans: B

d. Internal intercostal

158. Which of the following substances must be further digested before it can be absorbed by specific carriers in the intestinal cells?

- Fructose
- Sucrose
- Alanine
- Dipeptide
- Tripeptides

Ans: B

159. Regarding starvation, which is appropriate:

- Increase in plasma glucose
- Increase utilization of glucose by brain
- Decrease urine nitrogen excretion
- Production of ketone bodies

Ans: D

160. Vitamin C is required for which step in collagen synthesis?

- Glycosylation of prochain
- Chain association
- Disulfide bonding
- Triple helix formation
- Hydroxylation of proline and lysine residues

Ans: E

161. Which of the following types of drugs will have maximum oral bioavailability?

- Drugs with high first-pass metabolism
- Highly hydrophilic drugs
- Largely hydrophobic, yet soluble in aqueous solutions
- Chemically unstable drugs
- Drugs that are P-glycoprotein substrates

Ans: C

162. Baroreceptor reflex increases which of the following?

- MAP
- TPR
- Brain ridge reflex
- Blood pressure

Ans: A

163. Antibodies are formed in?
- Thymus
 - Plasma cells
 - Lymphocyte
 - Liver
 - B cell

Ans: B

164. A 26 yrs healthy lady with regular cycles met a bus accident and was uninjured but her husband and child died. In the ensuing years, her menses ceased and she had frequent nightmares about the accident. The likely cause for her amenorrhea is?
- Decrease CRH
 - Decrease prolactin
 - Increase CRH
 - Decrease dopamine
 - Increase norepinephrine

Ans: C

165. Blood supply of the upper 1/3rd of the esophagus is from?
- Thoracic aorta
 - Left gastric artery
 - Right gastric artery
 - Superior thyroid artery
 - Inferior thyroid artery

Ans: E

166. MOA of Cimetidine is?
- Decreases gastric acidity
 - Decreases gastric volume
 - H₂ blocker on parietal cells
 - Increases H₂ receptors

Ans: C

167. Short term memory loss occurs due to lesion of?
- Hippocampus
 - Para hippocampal
 - Neocortex
 - Frontal lobe
 - Occipital lobe

Ans: A

168. The effect of L-dopa in Parkinson patient decreases gradually due to?
- Antibodies develop against L-dopa
 - Gradual degeneration of neurons in substantia nigra
 - Decrease ability to cross BBB
 - Increase metabolism centrally

Ans: B

169. Regarding beta thalassemia, which is true:
- Mutation in promoter region of beta gene
 - Gene deletion mutation in beta gene
 - Large deletion in beta gene
 - Small deletion in beta gene

Ans: A

170. Regarding Clinical trials:
- Single blind subject doesn't know whether placebo or drug is given
 - Single blinds doctor doesn't know about drug or placebo
 - Single blind are always randomized trials

Ans: A

171. A lady with urticaria was given IM adrenaline for type 1 hypersensitivity. Blood samples were taken, which of the following will be raised?
- IgG
 - Serum tryptase level
 - IGM
 - IgE
 - IGA

Ans: D

172. Mechanism of Cl reabsorption in later segment of PCT is?
- Passively due to concentration gradient
 - Active transport
 - Passively due to electric gradient
 - Facilitated diffusion

Ans: C

173. Regarding waves in stomach:
- High amplitude in body of stomach than caudal
 - Generated at pylorus
 - High proportion from cranial to caudal
 - Absent in inactive stomach

Ans: A

FOIS PEARL

In stable COPD disease:

174. a. Ventilator drive depends on oxygen
b. Chemoreceptors become less sensitive to PCO₂
c. H⁺ above normal
d. Increase dead space

Ans: B

Caspases are involved in?

175. a. Apoptosis
b. Necrosis
c. Neoplasia
d. Inflammation

Ans: A

Mechanism of IP₃?

176. a. C-Amp
b. By releasing calcium from sarcoplasmic reticulum
c. NO

Ans: B

G-protein phospholipase-C results in

- a. C-GMP
b. C-AMP
c. IP₃

Ans: C

178. A tyre factory worker, exposed to hydrocarbons present with c/o low grade fever and weight loss. What can be the cause?

- a. Bladder Ca
b. Prostatic Ca
c. Bronchogenic Ca
d. Polycythemia

Ans: A (Ref: it causes both but it involves a relative risk of 1.2-1.4 for lung cancer and 2.2 for bladder cancer.)

179. Lymph flow is decreased by?

- a. Increased arterial pressure
b. Increased venous pressure.
c. Increased capillary permeability.
d. Hemorrhage
e. Increased protein leakage

Ans: D

180. Most common cause of autoimmune hemolytic anaemia?

- a. SLE
b. CLL
c. Idiopathic
d. Genetic

e. Drugs

Ans: C (around more than 50% cases)

181. A patient unconscious from half hour after accident is brought to the hospital looks pale cold and clammy, pulse rapid and thready. His MAP is <60, PO₂ 60mmHg. Which will provide rapid response?

- a. Baroreceptor reflex
b. Brain bridge reflex
c. Chemoreceptor reflex
d. CNS ischemic response
e. Cushing reflex

Ans: D

182. Regarding Transposition of great vessels, which is true:

- a. Aorta is in connection with right ventricle
b. Aortic arch is posterior to pulmonary trunk
c. Pulmonary trunk arises from Rt ventricle
d. Pulmonary trunk is anterior

Ans: A

183. Treatment of anemia after total gastrectomy is?

- a. Oral iron supplements
b. Folic acid and oral Vit B₁₂
c. IV Vit B₁₂
d. Transfusion

Ans: C

184. Tubular fluid has a higher pH than PCT due to?

- a. Increased Carbonic anhydrase present at the brush border of DCT
b. Increased buffer is present in distal tubule
c. Distal tubule has tight junction due to which ions can't pass
d. More H⁺ ions are secreted in DCT
e. DCT is more permeable to solutes

Ans: D

185. Which of the following bones develop by intramembranous ossification?

- a. Scapula
- b. Clavicle
- c. Humerus
- d. Ulna
- e. None of the above

Ans: B

186. Area of sound perception is located in

- a. Lateral lemniscus
- b. Cortex in temporal lobe
- c. Cochlear nucleus
- d. Vestibular

Ans: B

187. After extraction of upper molar tooth, patient presents with swollen face and nasal discharge. What is the route of spread of infection?

- a. Maxillary sinus
- b. Zygomatic sinus
- c. Ethmoidal sinus
- d. Sphenoid sinus
- e. Facial

Ans: A

188. Which of the following decrease air resistance?

- a. Alpha 2 agonist
- b. Beta 2 agonist
- c. Alpha 1

Ans: B



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operation...**

