

AIIMS 2010 question paper

ANAESTHESIA

1. The volatility of an anesthetic agent is directly proportional to lowering the flow in the portal vein. Portal flow is maximally reduced by –

- A. ether
- B. halothane
- C. isoflurane
- D. enflurane

Ans: b.

2. A young boy has sickle cell trait. Which of the following anaesthesia is contraindicated?

- A. IV regional anaesthesia
- B. Brachial plexus block by supraclavicular approach
- C. Brachia plexus block by infraclavicular approach
- D. Brachial plexus block by axillary approach

Ans: a.

3. Local anaesthesia causing methemoglobinemia –

- A. Procaine
- B. Prilocaine
- C. Etiodicaine
- D. Ropivacaine

Ans: b.

ANATOMY

4. Extrinsic membranes of larynx are all except:

- A. Cricothyroid
- B. Thyrohyoid
- C. Hyoepiglottie
- D. Cricotracheal

Ans: A.

5. Paneth cells – true is

- A. Rich in rough endoplasmic reticulum
- B. High zine content
- C. Foamy cytoplasm
- D. Numerous lysozyme granules

Ans: A.

6. True about prostatic urethra are all except:

- A. Trapezoid in cross section
- B. Presence of verumontanum
- C. Openings of prostatic ducts
- D. Contains urethral crest

Ans: A.

7. Cranial nerve not carrying parasympathetic fibres

- A. Fourth
- B. Seventh
- C. Third
- D. Ninth

Ans: A.

8. Middle superior alveolar nerve is a branch of

- A. Mandibular division of trigeminal nerve
- B. Palatine division of maxillary nerve
- C. Anterior nasal division of maxillary nerve
- D. Inferior alveolar nerve

Ans is none

9. A healthy young athlete is sitting at the edge of the table with knee at 90 degree flexion. He fully extends it. What will happen?

- A. Movement of tibial tuberosity towards centre of the patella
- B. Movement of tibial tuberosity towards lateral border of patella
- C. Movement of tibial tuberosity towards medical border of patella
- D. No change in position

Ans: b.

10. Coeliac plexus is located

- A. Anterolateral & around the aorta
- B. Posterolateral & around the aorta
- C. Anteromedial to lumbar sympathetic chain
- D. Posterolateral to lumbar sympathetic chain

Ans: c.

11. Anterior ethmoidal nerve supplies all except:

- A. Maxillary sinus
- B. Interior of nasal cavity
- C. Dural sheath of anterior cranial fossa
- D. Ethmoidal air cells

Ans: d.

12. Appendix epiploicae present in

- A. Appendix
- b. Caecum
- C. Rectum
- D. Sigmoid colon

Ans: a.

13. All of the following muscles retract the scapula except:

- A. Trapezius
- B. Rhomboid major

- C. Rhomboid minor
- D. Levator scapulae

Ans: d.

14. The function of 8th cranial nerve is related to

- A. smell
- B. taste
- C. Touch
- D. Balance

Ans: d.

15. Pain insensitive structure in brain is:

- A. Falx cerebri
- B. Dural sheath surrounding vascular sinuses
- C. Middle meningeal artery
- D. Choroid plexus

Ans: d.

16. Which is not supplied by pelvic splanchnic nerves?

- A. rectum
- B. urinary bladder
- C. appendix
- D. Uterus

Ans: c.

BIOCHEMISTRY

17. Eukaryotic plasma membrane is made up of all except:

- A. Carbohydrates
- B. Triglycerides
- C. Lecithin
- D. Cholesterol

Ans: b.

18. Acetyl coA can be directly converted to all except:

- A. glucose
- B. fatty acids
- C. cholesterol
- D. ketone bodies

Ans: a.

19. A 40 yr old woman presents with progressive palmoplantar pigmentation. X-ray spine shows calcification of intervertebral discs. On adding Benedict's reagent to urine, it gives greenish brown precipitate and blue-black supernatant fluid. What is the diagnosis?

- A. phenylketonuria
- B. alkaptonuria
- C. tyrosinemia type-2
- D. argininosuccinic aciduria

Ans: b.

20. After overnight fasting, levels of glucose transporters reduced in

- A. brain cells
- B. RBCs
- C. adipocytes
- D. hepatocytes

Ans: c.

21. Splicing activity is a function of:

- A. mRNA
- B. snRNA
- C. tRNA
- D. rRNA

Ans: b.

22. After digestion by restriction endonucleases DNA strands can be joined again by:

- A. DNA polymerase
- B. DNA ligase
- C. DNA topoisomerase
- D. DNA gyrase

Ans: b.

23. True about sickle cells are all, except:

- A. Single nucleotide change results in change of glutamine to valine
- B. Sticky patch is generated as a result of replacement of a non polar residue with a polar residue
- C. HbS confers resistance against malaria in heterozygotes
- D. RFLP results from a single base change

Ans: b.

ENT

24. Infection of CNS spreads in inner ear through

- A. Cochlear aqueduct
- B. Endolymphatic sac
- C. Vestibular aqueduct
- D. Hyrtle fissure

Ans: a.

25. Most common site for CSF rhinorrhoea is:

- A. Ethmoidal sinuses
- B. Maxillary sinuses
- C. Frontal sinuses
- D. Tegmen tympani

Ans: a.

26. Endolymph in the inner ear:
- A. Is a filtrate of blood serum
 - B. Is secreted by stria vascularis
 - C. Is secreted by basilar membrane
 - D. Is secreted by hair cells

Ans: b.

27. Bell's palsy patient comes on day 3. treatment given would be:

- A. Intratympanic steroids
- B. Oral steroids + vitamin B
- C. Oral steroids + Acyclovir
- D. Vitamin B + vasodilators

Ans: c.

FORENSIC

28. Heat rupture is characterized by

- A. irregular margin
- B. Clotted blood
- C. regular margin
- D. clotted blood vessels

Ans: d.

29. Motorcyclist fracture among the following is

- A. ring fracture
- B. sutural separation
- C. comminuted fracture of vault of skull
- D. Fracture base of skull into anterior & posterior halves

Ans: d.

30. A child brought with suspected ingestion, presented with dry mouth, dilated pupil, difficulty in swallowing, delirium, dry & warm skin, the substance is:

- A. Anti-cholinergic
- B. Sympathetic
- C. Cholinergic
- D. Alpha-blocker

Ans: a.

31. Incisional wound on genital is seen commonly in:

- A. accidents
- B. Suicides
- C. Homicides
- D. Postmortem artifact

Ans: c.

32. Destructive power of bullet is determined by:

- A. weight of bullet
- B. shape of bullet
- C. Size of bullet
- D. velocity of bullet

Ans: d.

GYNAE & OBSTETRICS

33. Causes of primary amenorrhea are all except –

- A. Rokitansky syndrome
- B. Sheehan syndrome
- C. Kollman syndrome
- D. Turner syndrome

Ans: b.

34. A lady with placenta previa delivered a baby. She had excessive bleeding and shock. After resuscitation most likely complication would be –

- A. Galactorrhoea
- B. Diabetes insipidus
- C. Loss of menstruation
- D. Cushing's syndrome

Ans: c.

35. The presence of increased levels of which of the following in amniotic fluid is an indicator of open neural tube defect in the fetus?

- A. Phosphatidylesterase
- B. Acetyl cholinesterase
- C. Pseudocholine esterase
- D. Butyrylcholine esterase

Ans: b.

36. A 35 yr old P 3+0 is observed to have CIN grade III on colposcopic biopsy. Best treatment will be –

- A. Cryosurgery
- B. Conization
- C. LEEP
- D. Hysterectomy

Ans: c.

37. A pregnant lady had no complaints but mild cervical lymphadenopathy in first trimester. She was prescribed spiramycin but she was non-complaint. Baby was born with hydrocephalous and intracerebral calcification. Which of the these is likely cause?

- A. Toxoplasmosis
- B. CMV
- C. Cryptococcus
- D. Rubella

Ans: a.

38. Which of the following treatments for menorrhagia is not supported by evidence?

- A. Tranexamic acid
- B. Ethamylate
- C. Combined OCP
- D. Progesterone

Ans: b.

39. A pregnant female at 35 wks of pregnancy is diagnosed with SLE. Drugs that can be used to treat are all except:

- A. Corticosteroids
- B. Sulphasalazine
- C. Methotrexate
- D. Hydroxychloroquine

Ans: c.

40. Vaginal delivery can be allowed in all except –

- A. Monochorionic, monoamniotic twins
- B. Mentoanterior
- C. Extended breech
- D. Dichorionic twins with first vertex & second breech

Ans: a.

41. A lady undergoes total radical hysterectomy for stage Ib Ca cervix. It was found that Ca extends to lower part of body of uterus and upper part of cervix. Next step of management will be –

- A. Chemotherapy
- B. Radiotherapy
- C. Chemoradiation
- D. Follow-up

Ans: d.

42. A 35 yr old woman presents with primary infertility & palpable pelvic mass. Her CA-125 level is 0 U/ml. Diagnosis is –

- A. Ovarian Ca
- B. Endometrioma
- C. Tuberculosis
- D. Borderline ovarian tumor

Ans: b.

43. Ideal contraceptive for lactating mothers is:

- A. Barrier method
- B. Combined OCP
- C. Lactational amenorrhea
- D. Progesterone only pill

Ans: c.

44. Test for ovarian reserve –

- A. LH
- B. LH/FSH ratio
- C. FSH
- D. Estradiol

Ans: c.

45. At what gestational age should a pregnancy with cholestasis of pregnancy be terminated?

- A. 34 weeks
- B. 36 weeks
- C. 38 weeks
- D. 40 weeks

Ans: c.

46. Clomphene citrate – True statement is –

- A. Enclomiphene is anti-estrogenic
- B. Increases pregnancy rate 3 times as compared to placebo

- C. Incidence of twin pregnancy is 5-6%
- D. It has been shown to increase fertility in oligospermic males in randomized controlled trials

Ans: a.

47. Pain of ovarian carcinoma is referred to –

- A. back to thigh
- B. gluteal region
- C. anterior surface of thigh
- D. medial surface of thigh

Ans: d.

48. All are seen in gestational diabetes except –

- A. Previous macrosomic baby
- B. Obesity
- C. Malformations
- D. Polyhydramnios

Ans: c.

MEDICINE

49. Radiological features of left ventricular heart failure are all, except:

- A. Kerley B lines
- B. cardiomegaly
- C. oligemic lung fields
- D. increased flow in upper lobe veins

Ans: c.

50. Which is the most common childhood CNS tumor to metastasize outside brain?

- A. ependymoma
- B. glioblastoma multiforme

- C. choroids plexus tumor
- D. medulloblastoma

Ans: d.

51. Hypersensitivity vasculitis affects –

- A. Post-capillary venules
- B. Arterioles
- C. Veins
- D. Medium-sized arteries

Ans: a.

52. Hyperextensibility with normal elastic recoil is a feature of –

- A. Ehlers Danlos syndrome
- B. Pseudoxanthoma elasticum
- C. Cutis laxa
- D. Scleroderma

Ans: a.

53. Which of the following about atherosclerosis is true?

- A. Intake of PUFA associated with decreased risk
- B. Thoracic aorta involvement is more severe than abdominal aorta involvement
- C. Extent of lesion in veins is same as that in arteries
- D. Hypercholesterolemia does not always increase the risk of atherosclerosis per se

Ans: a.

54. A girl presented with severe hyperkalemia and peaked T waves on ECG. Fasted way of shifting potassium intracellularly is –

- A. calcium gluconate IV
- B. oral resins
- C. insulin + glucose
- D. Sodium bicarbonate

Ans: c.

55. Features of hypocalcemia are A/E –

- A. numbness & tingling
- B. circumoral & paresthesia
- C. depressed tendon reflexes
- D. skin irritability & sensitivity

Ans: c.

56. A young man back from leisure tri has swollen knee joints & foreign body sensation in eyes. Likely cause is –

- A. reiter's syndrome
- B. Sarcoidosis
- C. Behcet's disease
- D. SLE

Ans: a.

57. Cause of vasodilatation in spider nevi –

- A. estrogen
- B. testosterone
- C. Hepatotoxins
- D. FSH

Ans: a.

58. A patient presented with arthritis and purpura. Laboratory examination showed monoclonal and polyclonal cryoglobulins. Histopathology showed deposits of cryoglobins around the vessels. The patient should be tested for which of the following?

- A. HBV
- B. HCV
- C. EBV
- D. parvovirus

Ans: b.

59. Hepatomegaly is the essential feature of all the following except –

- A. Hepatic porphyria
- B. Nieman pick disease
- C. Von gierke's disease
- D. hurler syndrome

Ans: a.

60. Rapid infusion of insulin causes –

- A. hyperkalemia
- B. hypokalemia
- C. hypernatremia
- D. hyponatremia

Ans: b.

61. Digitalis toxicity enhanced by A/E –

- A. renal failure
- B. Hyperkalemia
- C. hypercalcemia
- D. hypomagnesemia

Ans: b.

62. True about hemochromatosis –

- A. Is genetically heterogenous
- B. Cannot be treated by phlebotomy
- C. Completely penetrant
- D. More common in females

Ans: a.

63. Strawberry gingivitis seen in –

- A. Myelocytic infiltration
- B. Phenytoin toxicity
- C. Wegner granulomatosis

D. Klipel renaunay syndrome

Ans: c.

64. A child presents with recurrent episodes of lip and laryngeal edema and abdominal pain associated with stress levels of which of the following are reduced.

A. C3

B. C5a

C. C1 esterase inhibitor

D. C9

Ans: c.

65. Best test for initial malabsorption –

A. D-xylose test

B. NBT-PABA Test

C. Fecal fatestimation

D. Schilling test

Ans: a.

66. All are true about temporal arthritis except –

A. Can leads to sudden bilateral blindness

B. More common in females

C. Worsen on exposure to heat

D. Mostly affects elderly

Ans: c.

67. A pt presents with acute rheumatic carditis with fever. True statement is

–

A. Increase troponin T

B. Reduced myocardial contractibility

C. Signs of inflammation and necrosis

D. Valve replacement will ameliorate C.C.F.

Ans: d.

68. Cardiovascular complications of HIV infection include all of the following except –

- A. pericardial effusion
- B. Cardiac tamponade
- C. Cardiomyopathy
- D. Aortic Aneurysm

Ans: d.

MICROBIOLOGY

69. A male patient presented with granulomatous penile ulcer. On Wright geimsa stain tiny organisms of 2 microns within macrophages see. What is the causative organism?

- A. LGV
- B. Calymmatobacterium grabulomatis
- C. Neisseria
- D. Staph aureus

Ans: b.

70. Diagnostic of Rabies –

- A. Guarneri bodies
- B. Negri bodies
- C. Cowdry a body
- D. Bollinger bodies

Ans: b.

71. Streptococcus all are true except –

- A. streptodornase cleaves DNA
- B. streptolysis O is active in reduced state
- C. Streptokinase is produced from serotype A, C, K
- D. pyrogenic toxin A is plasmid mediated

Ans: d.

72. Superantigens true is –

- A. they bind to the cleft of the MHC
- B. Needs to processed before presentation
- C. they are presented by APC's to T cells
- D. directly attached to lateral aspect of TCR beta chain

Ans: d.

73. Not used in leptospirosis –

- A. microscopic agglutination test
- B. dark field illumination
- C. macroscopic agglutination test
- D. Weil felix reaction

Ans: d.

74. Lymes disease all are true except –

- A. Borellia bourgdorferi replicates locally and invades locally
- B. Infection progresses inspite of good humoral immunity
- C. Polymorphonuclear lymphocytosis in CSF suggest meningial involvement
- D. IgA intrathecally confirms meningitis

Ans: c.

75. HIV pt with malabsotion, fever, chronic diarrhea, with acid fast positive organism. What is the causative agent?

- A. giardia
- B. microsporidia
- C. Isopora
- D. E. histolytica

Ans: c.

76. Most sensitive test for Treponema –

- A. VDRL
- B. RPR
- C. FTA-ABS
- D. Kahn

Ans: c.

77. Maltese cross seen on polarizing microscopy in –

- A. Cryptococcus neoformans
- B. Penicillium marneffi
- C. Blastomyces
- D. Candida albicans

Ans: a.

78. Irradiation can be used to sterilize A/E –

- A. Bone graft
- B. Suture
- C. Artificial tissue graft
- D. Bronchoscope

Ans: d.

79. Malabsorption caused by A/E –

- A. Giardia
- B. Ascaris lumbricoides
- C. Strongyloides
- D. Capillaria philipensis

Ans: b.

80. Antigen antibody precipitation is maximally seen in which of the following?

- A. excess of antibody
- B. excess of antigen
- C. equivalence of antibody and antigen
- D. antigen hapten interaction

Ans: c.

ORTHOPEDICS

81. Posterior glenohumeral instability can be tested by:

- A. jerk test
- B. crank test
- C. fulcrum test
- D. sulcus test

Ans: a.

82. Meralgia paresthetica is due to involvement of –

- A. medial cutaneous nerve of thigh
- B. lateral cutaneous nerve of thigh
- C. sural nerve
- D. femoral nerve

Ans: b.

83. Characteristic radiological feature of fibrous dysplasia –

- A. Thickened bone matrix
- B. Cortical erosion
- C. Ground glass appearance
- D. Bone enlargement

Ans: c.

84. A 68 yr old man came with pain and swelling and swelling of right knee.

Ahlfback grade 2 osteoarthritis changes were found on investigation. What

is the further management?

- A. arthroscopic washout
- B. high tibial osteotomy
- C. total knee replacement
- D. conservative

Ans: d.

85. A 65 yrs old man with H/O back pain since 3 months. ESR is raised. On examination marked stiffness and mild restriction of chest movements is found. On x-ray, syndesmophytes are present in vertebrae. Diagnosis is –

- A. Ankylosing spondylitis
- B. Degenerative osteoarthritis of spine
- C. Ankylosing hypersteosis
- D. Lumbar canal stenosis

Ans: a.

86. Synovial fluid – all are true except –

- A. secreted by type A cells
- B. follows non Newtonian fluid kinetics
- C. Contains hyaluronic acid
- D. viscosity is variable

Ans: a.

87. A lady presents with right knee swelling. Aspiration was done in which CPPD crystals were obtained. Next best investigation is:

- A. ANA
- B. RF
- C. CPK
- D. TSH

Ans: d.

88. Major mineral of the bone is –

- A. Calcite
- B. Hydroxyapatite
- C. Calcium oxide
- D. Calcium carbonate

Ans: b.

89. Which of the following is a pulsatile tumor?

- A. Osteosarcoma
- B. Chondrosarcoma
- C. Ewing's sarcoma
- D. Osteoclastoma

Ans: d.

OPHTHALMOLOGY

90. Disease with autosomal dominant inheritance is –

- A. best's disease
- B. bassen-kornzweig disease
- C. gyrate atrophy
- D. Laurence-Moon-Biedle syndrome

Ans: a.

91. A patient presented with unilateral proptosis which compressible and increases on bending forward. No thrill or bruit was present. MRI shows a retroorbital mass with enhancement. The likely diagnosis is –

- A. AV malformations
- B. Orbital encephalocoele
- C. Orbital varix
- D. Neurofibromatosis

Ans: c.

92. All are common cause of childhood blindness except

- A. Malnutrition
- B. Glaucoma
- C. Ophthalmia neonatorum
- D. Congenital dacryocystitis

Ans: d.

93. Which of the following does not scavenge free radicals in the lens?

- A. Vit A
- B. Vit C
- C. Vit E
- D. Catalase

Ans: a.

94. Mucopolysaccharide hyaluronic acid is present in –

- A. Vitreous humor
- B. Cornea
- C. Blood vessels
- D. Lens

Ans: a.

RADIOLOGY

95. A male was brought unconscious to the hospital with external injuries. CT brain showed no midline shift, but basal cisterns were compressed with multiple small hemorrhages. What is the diagnosis?

- A. cortical contusion
- B. Cerebral laceration
- C. Multiple infarcts
- D. Diffuse axonal injuries

Ans: d.

96. A newborn presents with congestive heart failure, on examination has bulging anterior fontanellae with a bruit on auscultation. Transfontanellar USG shows a hypoechoic midline mass with dilated lateral ventricles. Most likely diagnosis is –

- A. Medulloblastoma
- B. Encephalocele
- C. Vein of Galen malformation
- D. Arachnoid cyst

Ans: c.

97. A 48 yr old woman with B/I progressive weakness of both lower limbs, spasticity & mild impairment of respiratory movements. MRI shows an intradural mid-dorsal midline enhancing lesion. What is the diagnosis?

- A. Intradural lipoma
- B. Meningioma
- C. Neuroenteric cyst
- D. Dermoid cyst

Ans: b.

98. Which of the following feature of thyroid nodule on USG is not suggestive of malignancy?

- A. Hyperechogenicity
- B. Hypoechogenicity
- C. Non-homogenous
- D. Microcalcification

Ans: a.

99. Investigation of choice for a lesion of temporal bone –

- A. CT
- B. MRI
- C. USG
- D. Plain x-ray

Ans: a.

PHYSIOLOGY

100. Hyperaldosteronism is associated with all except

- A. Hyponatremia
- B. Hypokalemia
- C. Hypertension

D. Metabolic acidosis

Ans: d.

101. Intrinsic factor of Castle is secreted by

A. chief cells

B. parietal cells

C. mucous cells

D. beta cells

Ans: b.

102. The main cause of increased blood flow to exercising muscles is

A. raised blood pressure

B. vasodilatation due to local metabolites

C. increased sympathetic discharge to peripheral vessels

D. increased heart rate

Ans: b.

103. Appetite stimulated by all except

A. agouti related peptide

B. melanocyte concentrating hormone

C. melanocyte stimulating hormone

D. neuropeptide Y

Ans: c.

104. True about spinocerebellar tract is:

A. equilibrium

B. Smoothens and coordinates movement

C. Learning induced by change in vestibuloocular reflex

D. planning and programming

Ans: b.

105. Capacitance of sperms takes place in:

A. Seminiferous tubules

- B. Epididymis
- C. Vas deference
- D. uterus

Ans: d.

106. Not done by insulin:

- A. Glycogen synthesis
- B. Glycolysis
- C. Lipogenesis
- D. Ketogenesis

Ans: d.

107. Somatomedin mediates:

- A. Deposition of chondroitin sulfate
- B. Lipolysis
- C. Gluconeogenesis
- D. Decreased rate of glucose uptake by cells

Ans: a.

PSM

108. Leprosy involves all except:

- A. uterus
- B. Ovary
- C. Nerve
- D. Eye

Ans: a.

109. True about global warming is:

- A. CO₂ is the major greenhouse gas
- B. Stratosphere ozone layer is harmful
- C. CFC increases stratosphere ozone layer

D. Kyoto protocol called for 20% reduction in green house effect

Ans: a.

110. Incidence can be calculated by

A. case-control study

B. Prospective study

C. Retrospective study

D. Cross-sectional study

Ans: b.

111. All are true about Aedes except:

A. Bites repeatedly

B. Eggs cannot survive for more than a week without water

C. Transmits dengue

D. It takes 7-8 days to develop the parasite and transmit disease

Ans: b.

112. All of the following statements about purification of water are true except:

A. Presence of clostridial spores indicate recent contamination of water

B. Coliforms must not be detectable in any 100 ml sample of drinking water

C. Sodium thiosulphate is used to neutralize chlorine

D. Coliforms may be detected by multiple tube method & indole production

Ans: a.

113. Not seen in fetal pollution

A. staphylococcus

B. Streptococcus

C. E. coli

D. Clostridium perfringens

Ans: a.

114. Vitamin A prophylaxis to a child is:

<https://www.freshersnow.com/>

- A. Health promotion
- B. Specific Protection
- C. Primordial prevention
- D. Secondary prevention

Ans: b.

115. Savlon contains

- A. Cetrimide + Chlorheximide
- B. Cetrimide + Chlorheximide + butyl alcohol
- C. Cetrimide + butyl alcohol
- D. cetrimide + Cetavlon

Ans: a.

116. Not true about crude birth rate

- A. It is a measure of fertility
- B. It is actually a ratio not a rate
- C. It is independent of age of population
- D. Numerator does not include still births

Ans: b.

117. Direct standardization is used to compare the mortality rates between two countries. This is done because of the differences in:

- A. Causes of death
- B. Numerators
- C. Age distributions
- D. Denominators

Ans: c.

118. A test has high false positive rate in a community. True is

- A. high specificity
- B. high sensitivity
- C. high prevalence
- D. low prevalence

Ans: d.

119. Weight of Indian reference man in kg:

- A. 55
- B. 60
- C. 50
- D. 45

Ans: b.

120. Chlorine demand of water is measured by

- A. Horrock's apparatus
- B. Chlorimeter
- C. Double pot
- D. Berkefeld filter

Ans: a.

121. Which of the following diseases is not included in "Vision 2010 right to sight" immediate goals?

- A. trachoma
- B. epidemic conjunctivitis
- C. cataract
- D. Onchocerciasis

Ans: b.

122. Which of the following statements about lepromin test is not true?

- A. it is negative in most children in first 3 month of life
- B. it is a diagnostic test
- C. it is an important aid to classify type of leprosy disease
- D. BCG vaccination may convert lepra reaction from negative to positive

Ans: b.

123. Disease not transmitted by Lice is:

- A. relapsing fever

- B. Trench fever
- C. Q-fever
- D. epidemic typhus

Ans: c.

124. Chikungunya is transmitted by

- A. aedes
- B. culex
- C. mansonoides
- D. anopheles

Ans: a.

125. In a study following interpretation are obtained: Satisfied, very satisfied, dissatisfied. Which type of scale is this?

- A. nominal
- B. ordinal
- C. interval
- D. ratio

Ans: b.

126. Treatment of choice for sputum positive pulmonary tuberculosis detected in 1st trimester of pregnancy:

- A. defer till second trimester
- B. start cat. I immediately
- C. start cat. II immediately
- D. Start cat. III immediately

Ans: b.

127. Safe disposal of mercury is:

- A. Collect carefully and recycle
- B. Controlled combustion
- C. Treatment with chemicals
- D. Deep burial

Ans: a.

128. You have diagnosed a patient clinically as having SLE and ordered 6 tests. Out of which 4 tests have some positive and 2 are negative. To determine the probability of SLE at this point, you need to know:

- A. Prior probability of SLE; sensitivity and specificity of each test
- B. Incidence of SLE and predictive value of each test
- C. Incidence and prevalence of SLE
- D. Relative risk of SLE in this patient

Ans: a.

129. STEPS done for

- A. surveillance of risk factors of non-communicable disease
- B. Surveillance of incidence of non-communicable disease
- C. Surveillance of evaluation of treatment of non-communicable disease
- D. Surveillance of mortality from non-communicable disease

Ans: a.

130. The best graphic representation of frequency distribution data gathered of a continuous variable is:

- A. Simple bar graph
- B. multiple bar
- C. Line diagram
- D. Histogram

Ans: d.

131. Vaccine with maximum efficacy is

- A. OPV
- B. Measles
- C. BCG
- D. TT

Ans: b.

132. True about arboviruses is:

- A. Yellow fever is endemic in India
- B. dengue has only one serotype
- C. KFD was first identified in West Bengal
- D. Chikungunya is transmitted by *Aedes aegypti*

Ans: d.

PHARMACOLOGY

133. Which is not used in treatment of heroin dependence?

- A. disulfiram
- B. buprenorphine
- C. clonidine
- D. lofexidine

Ans: a.

134. All of the following drug is CYP4A inhibitor except:

- A. erythromycin
- B. itraconazole
- C. ritonavir
- D. saquinavir

Ans: d.

135. Most common dose limiting toxicity of chemotherapeutic agent?

- A. Myelosuppression
- B. G.I. toxicity
- C. Neurotoxicity
- D. Alopecia

Ans: a.

136. Oligospermia caused by –

- A. Methotrexate

- B. Hydroxychloroquine
- C. Leflunomide
- D. D-penicillamine

Ans: a.

137. Drug of choice for Zollinger-Ellison syndrome –

- A. antihistaminics
- B. Proton pump inhibitors
- C. Dopamine agonists
- D. Antacids

Ans: b.

138. Which one of the following drugs cause hypomagnesemia by increased excretion?

- A. Frusemide therapy
- B. Cisplatin
- C. Digitalis
- D. Aminoglycosides

Ans: a.

139. Pharmacovigilance is done for monitoring –

- A. drug price
- B. unethical practices
- C. drug safety
- D. pharmacology students

Ans: c.

140. Which of the following drugs is both antiresorptive and bone formative?

- A. strontium ranelate
- B. calcitonin
- C. ibadronate
- D. teriperatide

Ans: a.

141. Thalidomide is used in all except –

- A. HIV induced peripheral neuropathy
- B. HIV induced mouth ulcer
- C. Bechet's syndrome
- D. Erythema nodosum leprosum

Ans: a.

142. Which is not an alkylating agent?

- A. 5-FU
- B. Chlorambucil
- C. Melphalan
- D. Cyclophosphamide

Ans: a.

143. Drug not used in pulmonary hypertension –

- A. Calcium channel blocker
- B. Endothelin receptor antagonist
- C. Alpha blocker
- D. Prostacyclin

Ans: c.

144. Opioid agonist are A/E –

- A. Morphine
- B. Codeine
- C. Ketamine
- D. Methadone

Ans: c.

PATHOLOGY

145. CD4 – is not important for which of the following –

<https://www.freshersnow.com/>

- A. antibody production
- B. cytotoxicity of T cells
- C. memory B cells
- D. opsonisation

Ans: d.

146. Characteristic feature of acute inflammation –

- A. vasoconstriction
- B. vascular stasis
- C. vasodilatation and increased vascular permeability
- D. margination of leucocytes

Ans: c.

147. Main feature of chemotaxis is –

- A. increased random movement of neutrophils
- B. increased adhesiveness to intima
- C. increased phagocytosis
- D. unidirectional locomotion of neutrophils

Ans: d.

148. Central organ in apoptosis –

- A. mitochondria
- B. nucleus
- C. ER
- D. golgi body

Ans: a.

149. Coagulative necrosis is seen in –

- A. T.B.
- B. Sarcoidosis
- C. Cryptococcal infection
- D. gangrene

Ans: a.

150. Best investigation for diagnosing amyloidosis –

- A. Rectal biopsy
- B. Colonoscopy
- C. CT scan
- D. Upper GI endoscopy

Ans: a.

THESIA

1. The volatility of an anesthetic agent is directly proportional to lowering the flow in the portal vein. Portal flow is maximally reduced by –

- A. ether
- B. halothane
- C. isoflurane
- D. enflurane

Ans: b.

2. A young boy has sickle cell trait. Which of the following anaesthesia is contraindicated?

- A. IV regional anaesthesia
- B. Brachial plexus block by supraclavicular approach
- C. Brachia plexus block by infraclavicular approach
- D. Brachial plexus block by axillary approach

Ans: a.

3. Local anaesthesia causing methemoglobinemia –

- A. Procaine
- B. Prilocaine
- C. Etiodicaine
- D. Ropivacaine

Ans: b.

ANATOMY

4. Extrinsic membranes of larynx are all except:

- A. Cricothyroid
- B. Thyrohyoid
- C. Hyoepiglottic
- D. Cricotracheal

Ans: A.

5. Paneth cells – true is

- A. Rich in rough endoplasmic reticulum
- B. High zinc content
- C. Foamy cytoplasm
- D. Numerous lysozyme granules

Ans: A.

6. True about prostatic urethra are all except:

- A. Trapezoid in cross section
- B. Presence of verumontanum
- C. Openings of prostatic ducts
- D. Contains urethral crest

Ans: A.

7. Cranial nerve not carrying parasympathetic fibres

- A. Fourth
- B. Seventh
- C. Third
- D. Ninth

Ans: A.

8. Middle superior alveolar nerve is a branch of

- A. Mandibular division of trigeminal nerve
- B. Palatine division of maxillary nerve
- C. Anterior nasal division of maxillary nerve
- D. Inferior alveolar nerve

Ans is none

9. A healthy young athlete is sitting at the edge of the table with knee at 90 degree flexion. He fully extends it. What will happen?

- A. Movement of tibial tuberosity towards centre of the patella
- B. Movement of tibial tuberosity towards lateral border of patella
- C. Movement of tibial tuberosity towards medial border of patella
- D. No change in position

Ans: b.

10. Coeliac plexus is located

- A. Anterolateral & around the aorta
- B. Posterolateral & around the aorta
- C. Anteromedial to lumbar sympathetic chain
- D. Posterolateral to lumbar sympathetic chain

Ans: c.

11. Anterior ethmoidal nerve supplies all except:

- A. Maxillary sinus
- B. Interior of nasal cavity
- C. Dural sheath of anterior cranial fossa
- D. Ethmoidal air cells

Ans: d.

12. Appendix epiploicae present in

- A. Appendix
- b. Caecum
- C. Rectum
- D. Sigmoid colon

Ans: a.

13. All of the following muscles retract the scapula except:

- A. Trapezius
- B. Rhomboid major
- C. Rhomboid minor
- D. Levator scapulae

Ans: d.

14. The function of 8th cranial nerve is related to

- A. smell
- B. taste
- C. Touch
- D. Balance

Ans: d.

15. Pain insensitive structure in brain is:

- A. Falx cerebri
- B. Dural sheath surrounding vascular sinuses
- C. Middle meningeal artery
- D. Choroid plexus

Ans: d.

16. Which is not supplied by pelvic splanchnic nerves?

- A. rectum
- B. urinary bladder
- C. appendix
- D. Uterus

Ans: c.

BIOCHEMISTRY

17. Eukaryotic plasma membrane is made up of all except:

- A. Carbohydrates
- B. Triglycerides
- C. Lecithin
- D. Cholesterol

Ans: b.

18. Acetyl coA can be directly converted to all except:

- A. glucose
- B. fatty acids
- C. cholesterol
- D. ketone bodies

Ans: a.

19. A 40 yr old woman presents with progressive palmoplantar pigmentation. X-ray spine shows calcification of intervertebral discs. On adding Benedict's reagent to urine, it gives greenish brown precipitate and blue-black supernatant fluid. What is the diagnosis?

- A. phenylketonuria
- B. alkaptonuria
- C. tyrosinemia type-2
- D. argininosuccinic aciduria

Ans: b.

20. After overnight fasting, levels of glucose transporters reduced in

- A. brain cells
- B. RBCs
- C. adipocytes
- D. hepatocytes

Ans: c.

21. Splicing activity is a function of:

- A. mRNA

- B. snRNA
- C. tRNA
- D. rRNA

Ans: b.

22. After digestion by restriction endonucleases DNA strands can be joined again by:

- A. DNA polymerase
- B. DNA ligase
- C. DNA topoisomerase
- D. DNA gyrase

Ans: b.

23. True about sickle cells are all, except:

- A. Single nucleotide change results in change of glutamine to valine
- B. Sticky patch is generated as a result of replacement of a non polar residue with a polar residue
- C. HbS confers resistance against malaria in heterozygotes
- D. RFLP results from a single base change

Ans: b.

ENT

24. Infection of CNS spreads in inner ear through

- A. Cochlear aqueduct
- B. Endolymphatic sac
- C. Vestibular aqueduct
- D. Hyrtle fissure

Ans: a.

25. Most common site for CSF rhinorrhoea is:

- A. Ethmoidal sinuses

- B. Maxillary sinuses
- C. Frontal sinuses
- D. Tegmen tympani

Ans: a.

26. Endolymph in the inner ear:

- A. Is a filtrate of blood serum
- B. Is secreted by stria vascularis
- C. Is secreted by basilar membrane
- D. Is secreted by hair cells

Ans: b.

27. Bell's palsy patient comes on day 3. treatment given would be:

- A. Intratympanic steroids
- B. Oral steroids + vitamin B
- C. Oral steroids + Acyclovir
- D. Vitamin B + vasodilators

Ans: c.

FORENSIC

28. Heat rupture is characterized by

- A. irregular margin
- B. Clotted blood
- C. regular margin
- D. clotted blood vessels

Ans: d.

29. Motorcyclist fracture among the following is

- A. ring fracture
- B. sutural separation
- C. comminuted fracture of vault of skull

D. Fracture base of skull into anterior & posterior halves

Ans: d.

30. A child brought with suspected ingestion, presented with dry mouth, dilated pupil, difficulty in swallowing, delirium, dry & warm skin, the substance is:

A. Anti-cholinergic

B. Sympathetic

C. Cholinergic

D. Alpha-blocker

Ans: a.

31. Incisional wound on genital is seen commonly in:

A. accidents

B. Suicides

C. Homicides

D. Postmortem artifact

Ans: c.

32. Destructive power of bullet is determined by:

A. weight of bullet

B. shape of bullet

C. Size of bullet

D. velocity of bullet

Ans: d.

GYNAE & OBSTETRICS

33. Causes of primary amenorrhea are all except –

A. Rokitansky syndrome

B. Sheehan syndrome

C. Kollman syndrome

D. Turner syndrome

Ans: b.

34. A lady with placenta previa delivered a baby. She had excessive bleeding and shock. After resuscitation most likely complication would be –

A. Galactorrhoea

B. Diabetes insipidus

C. Loss of menstruation

D. Cushing's syndrome

Ans: c.

35. The presence of increased levels of which of the following in amniotic fluid is an indicator of open neural tube defect in the fetus?

A. Phosphatidylesterase

B. Acetyl cholinesterase

C. Pseudocholine esterase

D. Butyrylcholine esterase

Ans: b.

36. A 35 yr old P 3+0 is observed to have CIN grade III on colposcopic biopsy. Best treatment will be –

A. Cryosurgery

B. Conization

C. LEEP

D. Hysterectomy

Ans: c.

37. A pregnant lady had no complaints but mild cervical lymphadenopathy in first trimester. She was prescribed spiramycin but she was non-complaint. Baby was born with hydrocephalous and intracerebral calcification. Which of the these is likely cause?

A. Toxoplasmosis

B. CMV

C. Cryptococcus

D. Rubella

Ans: a.

38. Which of the following treatments for menorrhagia is not supported by evidence?

A. Tranexamic acid

B. Ethamylate

C. Combined OCP

D. Progesterone

Ans: b.

39. A pregnant female at 35 wks of pregnancy is diagnosed with SLE.

Drugs that can be used to treat are all except:

A. Corticosteroids

B. Sulphasalazine

C. Methotrexate

D. Hydroxychloroquine

Ans: c.

40. Vaginal delivery can be allowed in all except –

A. Monochorionic, monoamniotic twins

B. Mentoanterior

C. Extended breech

D. Dichorionic twins with first vertex & second breech

Ans: a.

41. A lady undergoes total radical hysterectomy for stage Ib Ca cervix. It was found that Ca extends to lower part of body of uterus and upper part of cervix. Next step of management will be –

A. Chemotherapy

B. Radiotherapy

C. Chemoradiation

D. Follow-up

Ans: d.

42. A 35 yr old woman presents with primary infertility & palpable pelvic mass. Her CA-125 level is 0 U/ml. Diagnosis is –

A. Ovarian Ca

B. Endometrioma

C. Tuberculosis

D. Borderline ovarian tumor

Ans: b.

43. Ideal contraceptive for lactating mothers is:

A. Barrier method

B. Combined OCP

C. Lactational amenorrhea

D. Progesterone only pill

Ans: c.

44. Test for ovarian reserve –

A. LH

B. LH/FSH ratio

C. FSH

D. Estradiol

Ans: c.

45. At what gestational age should a pregnancy with cholestasis of pregnancy be terminated?

A. 34 weeks

B. 36 weeks

C. 38 weeks

D. 40 weeks

Ans: c.

46. Clomphene citrate – True statement is –

- A. Enclomiphene is anti-estrogenic
- B. Increases pregnancy rate 3 times as compared to placebo
- C. Incidence of twin pregnancy is 5-6%
- D. It has been shown to increase fertility in oligospermic males in randomized controlled trials

Ans: a.

47. Pain of ovarian carcinoma is referred to –

- A. back to thigh
- B. gluteal region
- C. anterior surface of thigh
- D. medial surface of thigh

Ans: d.

48. All are seen in gestational diabetes except –

- A. Previous macrosomic baby
- B. Obesity
- C. Malformations
- D. Polyhydramnios

Ans: c.

MEDICINE

49. Radiological features of left ventricular heart failure are all, except:

- A. Kerley B lines
- B. cardiomegaly
- C. oligemic lung fields
- D. increased flow in upper lobe veins

Ans: c.

50. Which is the most common childhood CNS tumor to metastasize outside brain?

- A. ependymoma
- B. glioblastoma multiforme
- C. choroids plexus tumor
- D. medulloblastoma

Ans: d.

51. Hypersensitivity vasculitis affects –

- A. Post-capillary venules
- B. Arterioles
- C. Veins
- D. Medium-sized arteries

Ans: a.

52. Hyperextensibility with normal elastic recoil is a feature of –

- A. Ehlers Danlos syndrome
- B. Pseudoxanthoma elasticum
- C. Cutis laxa
- D. Scleroderma

Ans: a.

53. Which of the following about atherosclerosis is true?

- A. Intake of PUFA associated with decreased risk
- B. Thoracic aorta involvement is more severe than abdominal aorta involvement
- C. Extent of lesion in veins is same as that in arteries
- D. Hypercholesterolemia does not always increase the risk of atherosclerosis per se

Ans: a.

54. A girl presented with severe hyperkalemia and peaked T waves on ECG. Fasted way of shifting potassium intracellularly is –

- A. calcium gluconate IV
- B. oral resins
- C. insulin + glucose
- D. Sodium bicarbonate

Ans: c.

55. Features of hypocalcemia are A/E –

- A. numbness & tingling
- B. circumoral & paresthesia
- C. depressed tendon reflexes
- D. skin irritability & sensitivity

Ans: c.

56. A young man back from leisure tri has swollen knee joints & foreign body sensation in eyes. Likely cause is –

- A. reiter's syndrome
- B. Sarcoidosis
- C. Behcet's disease
- D. SLE

Ans: a.

57. Cause of vasodilatation in spider nevi –

- A. estrogen
- B. testosterone
- C. Hepatotoxins
- D. FSH

Ans: a.

58. A patient presented with arthritis and purpura. Laboratory examination showed monoclonal and polyclonal cryoglobulins. Histopathology showed deposits of cryoglobins around the vessels. The patient should be tested for which of the following?

- A. HBV

- B. HCV
- C. EBV
- D. parvovirus

Ans: b.

59. Hepatomegaly is the essential feature of all the following except –

- A. Hepatic porphyria
- B. Nieman pick disease
- C. Von gierke's disease
- D. hurler syndrome

Ans: a.

60. Rapid infusion of insulin causes –

- A. hyperkalemia
- B. hypokalemia
- C. hypernatremia
- D. hyponatremia

Ans: b.

61. Digitalis toxicity enhanced by A/E –

- A. renal failure
- B. Hyperkalemia
- C. hypercalcemia
- D. hypomagnesemia

Ans: b.

62. True about hemochromatosis –

- A. Is genetically heterogenous
- B. Cannot be treated by phlebotomy
- C. Completely penetrant
- D. More common in females

Ans: a.

63. Strawberry gingivitis seen in –

- A. Myelocytic infiltration
- B. Phenytoin toxicity
- C. Wegner granulomatosis
- D. Klipel renaunay syndrome

Ans: c.

64. A child presents with recurrent episodes of lip and laryngeal edema and abdominal pain associated with stress levels of which of the following are reduced.

- A. C3
- B. C5a
- C. C1 esterase inhibitor
- D. C9

Ans: c.

65. Best test for initial malabsorption –

- A. D-xylose test
- B. NBT-PABA Test
- C. Fecal fatestimation
- D. Schilling test

Ans: a.

66. All are true about temporal arthritis except –

- A. Can leads to sudden bilateral blindness
- B. More common in females
- C. Worsen on exposure to heat
- D. Mostly affects elderly

Ans: c.

67. A pt presents with acute rheumatic carditis with fever. True statement is

–

- A. Increase troponin T

- B. Reduced myocardial contractibility
- C. Signs of inflammation and necrosis
- D. Valve replacement will ameliorate C.C.F.

Ans: d.

68. Cardiovascular complications of HIV infection include all of the following except –

- A. pericardial effusion
- B. Cardiac tamponade
- C. Cardiomyopathy
- D. Aortic Aneurysm

Ans: d.

MICROBIOLOGY

69. A male patient presented with granulomatous penile ulcer. On Wright geimsa stain tiny organisms of 2 microns within macrophages seen. What is the causative organism?

- A. LGV
- B. Calymmatobacterium granulomatis
- C. Neisseria
- D. Staph aureus

Ans: b.

70. Diagnostic of Rabies –

- A. Guarneri bodies
- B. Negri bodies
- C. Cowdry a body
- D. Bollinger bodies

Ans: b.

71. Streptococcus all are true except –

- A. streptodornase cleaves DNA
- B. streptolysin O is active in reduced state
- C. Streptokinase is produced from serotype A, C, K
- D. pyrogenic toxin A is plasmid mediated

Ans: d.

72. Superantigens true is –

- A. they bind to the cleft of the MHC
- B. Needs to processed before presentation
- C. they are presented by APC's to T cells
- D. directly attached to lateral aspect of TCR beta chain

Ans: d.

73. Not used in leptospirosis –

- A. microscopic agglutination test
- B. dark field illumination
- C. macroscopic agglutination test
- D. Weil felix reaction

Ans: d.

74. Lymes disease all are true except –

- A. Borellia bourgdorferi replicates locally and invades locally
- B. Infection progresses inspite of good humoral immunity
- C. Polymorphonuclear lymphocytosis in CSF suggest meningial involvement
- D. IgA intrathecally confirms meningitis

Ans: c.

75. HIV pt with malabsotion, fever, chronic diarrhea, with acid fast positive organism. What is the causative agent?

- A. giardia
- B. microsporidia
- C. Isopora

D. E. histolytica

Ans: c.

76. Most sensitive test for Treponema –

A. VDRL

B. RPR

C. FTA-ABS

D. Kahn

Ans: c.

77. Maltese cross seen on polarizing microscopy in –

A. Cryptococcus neoformans

B. Penicillium marneffi

C. Blastomyces

D. Candida albicans

Ans: a.

78. Irradiation can be used to sterilize A/E –

A. Bone graft

B. Suture

C. Artificial tissue graft

D. Bronchoscope

Ans: d.

79. Malabsorption caused by A/E –

A. Giardia

B. Ascaris lumbricoides

C. Strongyloides

D. Capillaria philipensis

Ans: b.

80. Antigen antibody precipitation is maximally seen in which of the following?

- A. excess of antibody
- B. excess of antigen
- C. equivalence of antibody and antigen
- D. antigen hapten interaction

Ans: c.

ORTHOPEDICS

81. Posterior glenohumeral instability can be tested by:

- A. jerk test
- B. crank test
- C. fulcrum test
- D. sulcus test

Ans: a.

82. Meralgia paresthetica is due to involvement of –

- A. medial cutaneous nerve of thigh
- B. lateral cutaneous nerve of thigh
- C. sural nerve
- D. femoral nerve

Ans: b.

83. Characteristic radiological feature of fibrous dysplasia –

- A. Thickened bone matrix
- B. Cortical erosion
- C. Ground glass appearance
- D. Bone enlargement

Ans: c.

84. A 68 yr old man came with pain and swelling and swelling of right knee. Ahlback grade 2 osteoarthritis changes were found on investigation. What is the further management?

- A. arthroscopic washout
- B. high tibial osteotomy
- C. total knee replacement
- D. conservative

Ans: d.

85. A 65 yrs old man with H/O back pain since 3 months. ESR is raised. On examination marked stiffness and mild restriction of chest movements is found. On x-ray, syndesmophytes are present in vertebrae. Diagnosis is –

- A. Ankylosing spondylitis
- B. Degenerative osteoarthritis of spine
- C. Ankylosing hypersteosis
- D. Lumbar canal stenosis

Ans: a.

86. Synovial fluid – all are true except –

- A. secreted by type A cells
- B. follows non Newtonian fluid kinetics
- C. Contains hyaluronic acid
- D. viscosity is variable

Ans: a.

87. A lady presents with right knee swelling. Aspiration was done in which CPPD crystals were obtained. Next best investigation is:

- A. ANA
- B. RF
- C. CPK
- D. TSH

Ans: d.

88. Major mineral of the bone is –

- A. Calcite
- B. Hydroxyapatite

- C. Calcium oxide
- D. Calcium carbonate

Ans: b.

89. Which of the following is a pulsatile tumor?

- A. Osteosarcoma
- B. Chondrosarcoma
- C. Ewing's sarcoma
- D. Osteoclastoma

Ans: d.

OPHTHALMOLOGY

90. Disease with autosomal dominant inheritance is –

- A. best's disease
- B. bassen-kornzweig disease
- C. gyrate atrophy
- D. Laurence-Moon-Biedle syndrome

Ans: a.

91. A patient presented with unilateral proptosis which compressible and increases on bending forward. No thrill or bruit was present. MRI shows a retroorbital mass with enhancement. The likely diagnosis is –

- A. AV malformations
- B. Orbital encephalocele
- C. Orbital varix
- D. Neurofibromatosis

Ans: c.

92. All are common cause of childhood blindness except

- A. Malnutrition
- B. Glaucoma
- C. Ophthalmia neonatorum

D. Congenital dacryocystitis

Ans: d.

93. Which of the following does not scavenge free radicals in the lens?

A. Vit A

B. Vit C

C. Vit E

D. Catalase

Ans: a.

94. Mucopolysaccharide hyaluronic acid is present in –

A. Vitreous humor

B. Cornea

C. Blood vessels

D. Lens

Ans: a.

RADIOLOGY

95. A male was brought unconscious to the hospital with external injuries. CT brain showed no midline shift, but basal cisterns were compressed with multiple small hemorrhages. What is the diagnosis?

A. cortical contusion

B. Cerebral laceration

C. Multiple infarcts

D. Diffuse axonal injuries

Ans: d.

96. A newborn presents with congestive heart failure, on examination has bulging anterior fontanellae with a bruit on auscultation. Transfontanellar USG shows a hypoechoic midline mass with dilated lateral ventricles. Most likely diagnosis is –

- A. Medulloblastoma
- B. Encephalocele
- C. Vein of Galen malformation
- D. Arachnoid cyst

Ans: c.

97. A 48 yr old woman with B/I progressive weakness of both lower limbs, spasticity & mild impairment of respiratory movements. MRI shows an intradural mid-dorsal midline enhancing lesion. What is the diagnosis?

- A. Intradural lipoma
- B. Meningioma
- C. Neuroenteric cyst
- D. Dermoid cyst

Ans: b.

98. Which of the following feature of thyroid nodule on USG is not suggestive of malignancy?

- A. Hyperechogenicity
- B. Hypoechogenicity
- C. Non-homogenous
- D. Microcalcification

Ans: a.

99. Investigation of choice for a lesion of temporal bone –

- A. CT
- B. MRI
- C. USG
- D. Plain x-ray

Ans: a.

PHYSIOLOGY

100. Hyperaldosteronism is associated with all except

- A. Hyponatremia
- B. Hypokalemia
- C. Hypertension
- D. Metabolic acidosis

Ans: d.

101. Intrinsic factor of Castle is secreted by

- A. chief cells
- B. parietal cells
- C. mucous cells
- D. beta cells

Ans: b.

102. The main cause of increased blood flow to exercising muscles is

- A. raised blood pressure
- B. vasodilatation due to local metabolites
- C. increased sympathetic discharge to peripheral vessels
- D. increased heart rate

Ans: b.

103. Appetite stimulated by all except

- A. agouti related peptide
- B. melanocyte concentrating hormone
- C. melanocyte stimulating hormone
- D. neuropeptide Y

Ans: c.

104. True about spinocerebellar tract is:

- A. equilibrium
- B. Smoothens and coordinates movement
- C. Learning induced by change in vestibuloocular reflex
- D. planning and programming

Ans: b.

105. Capacitance of sperms takes place in:

- A. Seminiferous tubules
- B. Epididymis
- C. Vas deference
- D. uterus

Ans: d.

106. Not done by insulin:

- A. Glycogen synthesis
- B. Glycolysis
- C. Lipogenesis
- D. Ketogenesis

Ans: d.

107. Somatomedin mediates:

- A. Deposition of chondroitin sulfate
- B. Lipolysis
- C. Gluconeogenesis
- D. Decreased rate of glucose uptake by cells

Ans: a.

PSM

108. Leprosy involves all except:

- A. uterus
- B. Ovary
- C. Nerve
- D. Eye

Ans: a.

109. True about global warming is:

- A. CO₂ is the major greenhouse gas
- B. Stratosphere ozone layer is harmful
- C. CFC increases stratosphere ozone layer
- D. Kyoto protocol called for 20% reduction in green house effect

Ans: a.

110. Incidence can be calculated by

- A. case-control study
- B. Prospective study
- C. Retrospective study
- D. Cross-sectional study

Ans: b.

111. All are true about Aedes except:

- A. Bites repeatedly
- B. Eggs cannot survive for more than a week without water
- C. Transmits dengue
- D. It takes 7-8 days to develop the parasite and transmit disease

Ans: b.

112. All of the following statements about purification of water are true except:

- A. Presence of clostridial spores indicate recent contamination of water
- B. Coliforms must not be detectable in any 100 ml sample of drinking water
- C. Sodium thiosulphate is used to neutralize chlorine
- D. Coliforms may be detected by multiple tube method & indole production

Ans: a.

113. Not seen in fetal pollution

- A. staphylococcus
- B. Streptococcus
- C. E. coli

D. Clostridium perfringens

Ans: a.

114. Vitamin A prophylaxis to a child is:

A. Health promotion

B. Specific Protection

C. Primordial prevention

D. Secondary prevention

Ans: b.

115. Savlon contains

A. Cetrimide + Chlorheximide

B. Cetrimide + Chlorheximide + butyl alcohol

C. Cetrimide + butyl alcohol

D. cetrimide + Cetavlon

Ans: a.

116. Not true about crude birth rate

A. It is a measure of fertility

B. It is actually a ratio not a rate

C. It is independent of age of population

D. Numerator does not include still births

Ans: b.

117. Direct standardization is used to compare the mortality rates between two countries. This is done because of the differences in:

A. Causes of death

B. Numerators

C. Age distributions

D. Denominators

Ans: c.

118. A test has high false positive rate in a community. True is

- A. high specificity
- B. high sensitivity
- C. high prevalence
- D. low prevalence

Ans: d.

119. Weight of Indian reference man in kg:

- A. 55
- B. 60
- C. 50
- D. 45

Ans: b.

120. Chlorine demand of water is measured by

- A. Horrock's apparatus
- B. Chlorimeter
- C. Double pot
- D. Berkefeld filter

Ans: a.

121. Which of the following diseases is not included in "Vision 2010 right to sight" immediate goals?

- A. trachoma
- B. epidemic conjunctivitis
- C. cataract
- D. Onchocerciasis

Ans: b.

122. Which of the following statements about lepromin test is not true?

- A. it is negative in most children in first 3 month of life
- B. it is a diagnostic test
- C. it is an important aid to classify type of leprosy disease
- D. BCG vaccination may convert lepra reaction from negative to positive

Ans: b.

123. Disease not transmitted by Lice is:

- A. relapsing fever
- B. Trench fever
- C. Q-fever
- D. epidemic typhus

Ans: c.

124. Chikungunya is transmitted by

- A. aedes
- B. culex
- C. mansonoides
- D. anopheles

Ans: a.

125. In a study following interpretation are obtained: Satisfied, very satisfied, dissatisfied. Which type of scale is this?

- A. nominal
- B. ordinal
- C. interval
- D. ratio

Ans: b.

126. Treatment of choice for sputum positive pulmonary tuberculosis detected in 1st trimester of pregnancy:

- A. defer till second trimester
- B. start cat. I immediately
- C. start cat. II immediately
- D. Start cat. III immediately

Ans: b.

127. Safe disposal of mercury is:

- A. Collect carefully and recycle
- B. Controlled combustion
- C. Treatment with chemicals
- D. Deep burial

Ans: a.

128. You have diagnosed a patient clinically as having SLE and ordered 6 tests. Out of which 4 tests have some positive and 2 are negative. To determine the probability of SLE at this point, you need to know:

- A. Prior probability of SLE; sensitivity and specificity of each test
- B. Incidence of SLE and predictive value of each test
- C. Incidence and prevalence of SLE
- D. Relative risk of SLE in this patient

Ans: a.

129. STEPS done for

- A. surveillance of risk factors of non-communicable disease
- B. Surveillance of incidence of non-communicable disease
- C. Surveillance of evaluation of treatment of non-communicable disease
- D. Surveillance of mortality from non-communicable disease

Ans: a.

130. The best graphic representation of frequency distribution data gathered of a continuous variable is:

- A. Simple bar graph
- B. multiple bar
- C. Line diagram
- D. Histogram

Ans: d.

131. Vaccine with maximum efficacy is

- A. OPV
- B. Measles

C. BCG

D. TT

Ans: b.

132. True about arboviruses is:

A. Yellow fever is endemic in India

B. dengue has only one serotype

C. KFD was first identified in West Bengal

D. Chikungunya is transmitted by *Aedes aegypti*

Ans: d.

PHARMACOLOGY

133. Which is not used in treatment of heroin dependence?

A. disulfiram

B. buprenorphine

C. clonidine

D. lofexidine

Ans: a.

134. All of the following drug is CYP4A inhibitor except:

A. erythromycin

B. itraconazole

C. ritonavir

D. saquinavir

Ans: d.

135. Most common dose limiting toxicity of chemotherapeutic agent?

A. Myelosuppression

B. G.I. toxicity

C. Neurotoxicity

D. Alopecia

Ans: a.

136. Oligospermia caused by –

- A. Methotrexate
- B. Hydroxychloroquine
- C. Leflunomide
- D. D-penicillamine

Ans: a.

137. Drug of choice for Zollinger-Ellison syndrome –

- A. antihistaminics
- B. Proton pump inhibitors
- C. Dopamine agonists
- D. Antacids

Ans: b.

138. Which one of the following drugs cause hypomagnesemia by increased excretion?

- A. Frusemide therapy
- B. Cisplatin
- C. Digitalis
- D. Aminoglycosides

Ans: a.

139. Pharmacovigilance is done for monitoring –

- A. drug price
- B. unethical practices
- C. drug safety
- D. pharmacology students

Ans: c.

140. Which of the following drugs is both antiresorptive and bone formative?

- A. strontium ranelate

- B. calcitonin
- C. ibadronate
- D. teriperatide

Ans: a.

141. Thalidomide is used in all except –

- A. HIV induced peripheral neuropathy
- B. HIV induced mouth ulcer
- C. Bechet's syndrome
- D. Erythema nodosum leprosum

Ans: a.

142. Which is not an alkylating agent?

- A. 5-FU
- B. Chlorambucil
- C. Melphalan
- D. Cyclophosphamide

Ans: a.

143. Drug not used in pulmonary hypertension –

- A. Calcium channel blocker
- B. Endothelin receptor antagonist
- C. Alpha blocker
- D. Prostacyclin

Ans: c.

144. Opioid agonist are A/E –

- A. Morphine
- B. Codeine
- C. Ketamine
- D. Methadone

Ans: c.

PATHOLOGY

145. CD4 – is not important for which of the following –

- A. antibody production
- B. cytotoxicity of T cells
- C. memory B cells
- D. opsonisation

Ans: d.

146. Characteristic feature of acute inflammation –

- A. vasoconstriction
- B. vascular stasis
- C. vasodilatation and increased vascular permeability
- D. margination of leucocytes

Ans: c.

147. Main feature of chemotaxis is –

- A. increased random movement of neutrophils
- B. increased adhesiveness to intima
- C. increased phagocytosis
- D. unidirectional locomotion of neutrophils

Ans: d.

148. Central organ in apoptosis –

- A. mitochondria
- B. nucleus
- C. ER
- D. golgi body

Ans: a.

149. Coagulative necrosis is seen in –

- A. T.B.

- B. Sarcoidosis
- C. Cryptococcal infection
- D. gangrene

Ans: a.

150. Best investigation for diagnosing amyloidosis –

- A. Rectal biopsy
- B. Colonoscopy
- C. CT scan
- D. Upper GI endoscopy

Ans: a.