



Final Question Paper and Key

1. Antidesmoglein antibodies are thought to be involved in the pathogenesis of
 - A) Dermatitis herpetiformis
 - B) Bullous pemphigoid
 - C) Pemphigus vulgaris**
 - D) Familial benign pemphigus
2. Moccasin foot is caused by
 - A) Actinomycetes
 - B) Nocardia
 - C) Dermatophyte**
 - D) Candida albicans
3. "Ring of Woronoff" is seen in
 - A) Lichen planus
 - B) Tinea manuum
 - C) Psoriasis**
 - D) Granuloma annulare
4. Poikiloderma includes all of the following EXCEPT
 - A) Dyspigmentation
 - B) Telangiectasia
 - C) Follicular plugging**
 - D) Cutaneous atrophy
5. Bipolar affective disorder type II is characterized by
 - A) Episodes of mania and depression
 - B) Episodes of hypomania and depression**
 - C) Episodes of hypomania and dysthymia
 - D) Episodes of mania and dysthymia
6. Mrs.A, 30 year old housewife, presents with fear of moving out of home alone for about 2 years. She is constantly worrying about it, leading to continuous anxiety, low mood and sleep disturbance. The symptoms have led to severe disability making her homebound. What would be the appropriate diagnosis?
 - A) Agoraphobia**
 - B) Depressive illness
 - C) Generalized anxiety disorder
 - D) Simple phobia
7. One of the following medications is not used for treatment of anxiety disorders?
 - A) Atomoxetine**
 - B) Clonazepam
 - C) Sertraline
 - D) Venlafaxine

8. A 50 year old male was diagnosed with Mycoplasma pneumonia. The choice of a suitable antibiotic includes all of the following EXCEPT

- A) Beta-lactams**
- B) Macrolides
- C) Fluoroquinolones
- D) Tetracycline

9. Select the one FALSE statement among the following

- A) The alveoli are lined predominantly by epithelial cells
- B) Type II pneumocytes are a source of surfactant
- C) Type I pneumocytes can divide to reconstitute type II pneumocytes after lung injury**
- D) Surfactant reduces surface tension and counteracts the tendency of the alveoli to collapse

10. FEV₁ / FVC is reduced in all of the following conditions EXCEPT

- A) Asthma
- B) Chronic bronchitis
- C) Emphysema
- D) Pulmonary fibrosis**

11. The S1Q3T3 pattern in ECG is typically seen in

- A) Acute myocardial infarction
- B) Massive pulmonary embolism**
- C) Acute myocarditis
- D) Acute severe asthma

12. Merciful anosmia is characteristic of

- A) Atrophic rhinitis**
- B) Rhinitis sicca
- C) Rhinitis caseosa
- D) Hypertrophic rhinitis

13. Paracusis willisii is seen in

- A) CSOM
- B) Otosclerosis**
- C) Meniere's disease
- D) Serous otitis media

14. Trautmann's triangle is bounded by all EXCEPT

- A) Bony Labyrinth
- B) Sigmoid Sinus
- C) Superior Petrosal Sinus
- D) Inferior Petrosal Sinus**

15. Potato tumour is also called as

- A) Rhinophyma**
- B) Squamous cell carcinoma
- C) Adenoid cell carcinoma
- D) Rhinosporidiosis

16. Recruitment phenomenon is seen in

- A) Cochlear lesion**
- B) Retrocochlear lesion
- C) Otitis media
- D) Glue ear

17. Best investigation for guiding lung biopsies

- A) Doppler
- B) Ultrasonogram
- C) Computerized tomography**
- D) Magnetic Resonance Imaging

18. Piezoelectric crystals are main component of

- A) Ultrasound transducers**
- B) Photomultiplier tubes
- C) CT detectors
- D) MRI coils

19. "Dawson finger sign" on MRI is seen in

- A) Mesial temporal sclerosis
- B) Multiple sclerosis**
- C) Amyotrophic lateral sclerosis
- D) Sub-acute sclerosing panencephalitis

20. Investigation of choice to demonstrate vesico-ureteric reflux

- A) Intravenous pyelography
- B) Ultrasonography
- C) Micturating cystourethrography**
- D) Cystoscopy

21. Intermediate syndrome is seen in

- A) Barbiturate poisoning
- B) Carbon monoxide poisoning
- C) Methanol poisoning
- D) Organophosphorus poisoning**

22. Duroziez's sign is seen in

- A) Aortic regurgitation**
- B) Atrial septal defect
- C) Mitral regurgitation
- D) Ventricular septal defect

23. Pleural transudate is seen in

- A) Acute pancreatitis
- B) Bronchogenic carcinoma
- C) Congestive cardiac failure**
- D) Rheumatoid disease

24. The following test indicates viral replication in a person infected with hepatitis B
- A) Hepatitis B core antigen (HBcAg)
 - B) Hepatitis B e antigen (HBeAg)**
 - C) Hepatitis B surface antigen (HBsAg)
 - D) Anti HBc
25. Most common hypersecreting disease affecting pituitary involves secretion of
- A) Growth Hormone
 - B) Adrenocorticotrophic Hormone
 - C) Prolactin**
 - D) Thyroid Stimulating Hormone
26. Neuroleptic malignant syndrome is a serious adverse effect of
- A) Anti amoebic drugs
 - B) Anti epileptic drugs
 - C) Anti hypertensive drugs
 - D) Anti psychotic drugs**
27. Thrombospondin is a
- A) Anticoagulant
 - B) Angiogenesis inhibitor**
 - C) Thrombolytic agent
 - D) Tumour marker
28. Imatinib inhibits
- A) BCR-ABL gene product, tyrosine kinase**
 - B) HER2 receptor
 - C) TP53 gene
 - D) VEGF2, a stimulant of angiogenesis
29. Melioidosis is caused by
- A) Burkholderia pseudomallei**
 - B) Ehrlichia chaffeensis
 - C) Francisella tularensis
 - D) Streptococcus milleri
30. Tolvaptan is used in
- A) Hypocalcaemia
 - B) Hypokalaemia
 - C) Hypomagnesaemia
 - D) Hyponatraemia**
31. Risk of acute pancreatitis increases when there is
- A) Increased cholesterol
 - B) Increased HDL
 - C) Increased LDL
 - D) Increased triglycerides**

32. Austin Flint murmur is heard in

- A) Aortic stenosis
- B) Aortic regurgitation**
- C) Mitral stenosis
- D) Mitral regurgitation

33. Rheumatic activity involves mostly

- A) Aortic and tricuspid valves
- B) Aortic and pulmonary valves
- C) Mitral and tricuspid valves
- D) Mitral and aortic valves**

34. A double apical impulse is characteristic of

- A) Congestive cardiac failure
- B) Dilated cardiomyopathy
- C) Hypertrophic cardiomyopathy**
- D) Restrictive cardiomyopathy

35. Yellow nail syndrome is associated with

- A) Lymphoedema and exudative pleural effusion**
- B) Rheumatoid arthritis and pleural effusion
- C) Smoking and carcinoma of the lung and pleural effusion
- D) Tuberculosis and pleural effusion

36. Uthoff's symptoms are the ancillary symptoms seen in

- A) Myoclonic epilepsy
- B) Multiple sclerosis**
- C) Cardiac conduction abnormalities
- D) Myasthenia gravis

37. Discriminant function is a prognostic indicator in management of

- A) Alcoholic hepatitis**
- B) Bronchial asthma
- C) Disseminated intravascular coagulation
- D) Cardiogenic shock

38. Increased Reid index is a feature in

- A) Chronic Bronchitis**
- B) Allergic Broncho pulmonary Aspergillosis
- C) Chronic malaria
- D) Lymphomas

39. A diabetic patient aged 50 years presents with swollen left ankle which is not painful and has instability while walking. X-ray of ankle shows destroyed joint. Most probable diagnosis is

- A) Charcot's joint**
- B) Clutton's joint
- C) Osteomyelitis
- D) Osteoarthritis

40. Adenosine deaminase deficiency is associated with

- A) Severe combined immunodeficiency syndrome**
- B) X-linked agammaglobulinemia

- C) Transient hypogammaglobulinemia of infancy
- D) Chronic granulomatous disease

41. The second maturation division of human ovum occurs at the time of

- A) Fertilization**
- B) Implantation
- C) Ovulation
- D) Puberty

42. The living ligature of the uterus is

- A) Parametrium
- B) Endometrium
- C) Inner layer of myometrium
- D) Middle layer of myometrium**

43. Ovary develops from

- A) Mullerian duct
- B) Genital tubercle
- C) Genital ridge**
- D) Mesonephric duct

44. Regeneration of endometrium occurs from

- A) Zona spongiosa
- B) Zona basalis**
- C) Zona pellucidum
- D) Zona compactum

45. Placenta with umbilical cord attached to its margin is called

- A) Cirumvallate placenta
- B) Succenturiate placenta
- C) Battledore placenta**
- D) Velamentous placenta

46. Most common site for metastasis in choriocarcinoma is

- A) Vagina
- B) Lungs**
- C) Liver
- D) Brain

47. Gartner's duct arises from

- A) Mesonephric duct**
- B) Paramesonephric duct
- C) Hindgut
- D) Cloaca

48. Kielland's forceps is used in delivery for

- A) After coming head of breech
- B) Mentoposterior position
- C) Rotation in transverse position of head**
- D) Midcavity extraction of head

49. Delivery of nuchal arms in breech can be accomplished by

- A) Burns Marshall technique
- B) Prague maneuver
- C) Mauriceau Smellie Viet maneuver
- D) Lovset's technique**

50. Which is NOT a risk factor for placenta previa?

- A) Primigravida**
- B) Smoking
- C) Age more than 35 years
- D) Previous dilatation and curettage

51. All the following are therapeutic applications of Mifepristone EXCEPT

- A) Medical termination of pregnancy
- B) Post coital contraception
- C) Cushing's syndrome
- D) Post partum haemorrhage**

52. With semen parameters of volume-1.5ml; sperm concentration – 30 million/ml; motile sperms- less than 20% ; and sperms with normal morphology -30% , the man is said to have

- A) Oligoasthenozoospermia
- B) Teratozoospermia
- C) Asthenoteratozoospermia**
- D) Oligospermia

53. Diameter of engagement in face presentation is

- A) Submentobregmatic**
- B) Submentovertical**
- C) Mentovertical
- D) Mentofrontal

54. Organism causing "Fitz-Hugh Curtis syndrome" is

- A) Gonococcus**
- B) Streptococcus
- C) Candida albicans
- D) Listeria monocytogenes

55. Which structure develops from genital fold?

- A) Labia majora
- B) Labia minora**
- C) Clitoris
- D) Fourchette

56. What is the next step in management of term gestation with a nonreactive nonstress test?

- A) Emergency caesarean section
- B) Biophysical profile**
- C) Induction of labour
- D) Repeat nonstress test

57. Banana sign on ultrasound is a characteristic feature of

- A) Encephalocele
- B) Holoprosencephaly
- C) Anencephaly
- D) Spina bifida**

58. Which is NOT a feature of struma ovarii?

- A) Consists of thyroid tissue
- B) Cystic in nature**
- C) Contains colloid material
- D) Usually benign in nature

59. The structure belonging to level II support of the uterus is

- A) Uterosacral ligament
- B) Ovarian ligament
- C) Pelvic fascia**
- D) Levator ani

60. Which is NOT used as a distending media in hysteroscopy?

- A) Nitrous oxide**
- B) Carbon dioxide
- C) Glycine
- D) Saline

61. The Harmonic Scalpel uses the following type of energy

- A) Radiofrequency
- B) Alternating current with a Bipolar probe
- C) Ultrasound**
- D) Plasma coagulation

62. Thimble bladder is seen in

- A) Tuberculosis of bladder**
- B) Schistosomiasis
- C) Carcinoma bladder
- D) Sarcoidosis

63. The surgery done for Infantile Hypertrophic Pyloric Stenosis

- A) Heller's Myotomy
- B) Ramstedt's operation**
- C) Graham's patch operation
- D) Nissen's operation

64. Which of the following is used for managing Gastrointestinal Stromal Tumors which are refractory to IMATINIB treatment

- A) ERLOTINIB
- B) SUNITINIB**
- C) LAPATINIB
- D) DASTINIB

65. The WHO surgical safety checklist includes all of the following EXCEPT

- A) Sign in
- B) Time in**
- C) Sign out
- D) Time out

66. Capsule endoscopy has the following advantages EXCEPT

- A) No sedation is required
- B) It is painless procedure
- C) Helps us visualize the entire small bowel
- D) Suitable for patients with strictures in the bowel**

67. The most commonly used fixative for surgical specimens is

- A) 5% formaldehyde
- B) 10% formaldehyde**
- C) 20% formaldehyde
- D) 40% formaldehyde

68. One metabolic equivalent of task (MET) is equivalent to the following amount of oxygen consumption by a 40 year old, 70kg man at rest

- A) 2.5ml Oxygen/kg/min
- B) 3.5ml Oxygen/kg/min**
- C) 4.5ml Oxygen/kg/min
- D) 5.5ml Oxygen/kg/min

69. The risk of deep vein thrombosis is maximum in which of the following surgeries

- A) Neurosurgery
- B) Pelvic trauma surgery**
- C) Cardiothoracic surgery
- D) Inguinal hernia repair

70. Dunhill procedure is

- A) Bilateral total lobectomy + isthmusectomy
- B) Bilateral subtotal lobectomy + isthmusectomy
- C) Total lobectomy on one side + isthmusectomy + subtotal lobectomy on opposite side**
- D) Total lobectomy on one side + isthmusectomy

71. In organ transplantation which of the following is a Domino procedure

- A) Recipient receives donor heart and lungs
- B) Recipient receives only donor's lungs
- C) Recipient receives heart and lungs and donates his native heart to another recipient**
- D) Recipient receives only donor heart

72. In dislocation of shoulder, commonest nerve injured is

- A) Long thoracic
- B) Radial
- C) Circumflex**
- D) Dorsal scapular

73. A lady, 36 years old with papillary carcinoma thyroid – 4 cm, with regional nodes and no metastases. The stage will be

- A) I**
- B) II
- C) III
- D) IV

74. Which of the following statements is NOT CORRECT in Barret's esophagus?

- A) It is due to GERD
- B) Gastric metaplasia of lower esophageal lining**
- C) Intestinal metaplasia of lower esophageal lining
- D) Premalignant

75. Sick cell anemia is a result of

- A) Nonsense mutation
- B) Frameshift mutation
- C) Transversion mutation**
- D) Transition mutation

76. In Menetrier's disease, the gastric mucosa shows/has

- A) T-Cell infiltration
- B) Mucus Hypersecretion**
- C) Deficient blood supply
- D) H-Pylori infection

77. Most common site of colonic carcinoma is

- A) Caecum and ascending colon
- B) Descending colon
- C) Transverse colon
- D) Sigmoid colon**

78. Weakness of adductor pollicis is due to injury to

- A) Median nerve
- B) Ulnar nerve**
- C) Anterior interosseous nerve
- D) Radial nerve

79. The most common type of intussusception in adults is

- A) Colo-colic**
- B) Ileo colic
- C) Jejuno ileal
- D) Jejuno gastric

80. Most common site of Post-Gonococcal stricture of urethra

- A) Bulbar urethra**
- B) Membranous urethra
- C) Post meatal urethra
- D) Prostatic urethra

81. In acute gastro-intestinal hemorrhage, an A-V malformation is seen in

- A) Boerhaave syndrome
- B) Mallory Weiss syndrome
- C) Schatzki's ring
- D) Deulafoy lesion**

82. Streaming of the basal epidermal nuclei on microscopic examination is seen in

- A) Electrocutation**
- B) Lightning
- C) Ligature mark
- D) Lead poisoning

83. An infant is brought to the emergency department with alleged history of violent shaking by parents. Most characteristic injury is

- A) Ruptured spleen
- B) Pelvic bone fracture
- C) Skull bone fracture
- D) Subdural hemorrhage**

84. Bridging of tissues occurs in

- A) Abrasion
- B) Incised wound
- C) Lacerated wound**
- D) Stab wound

85. If a bullet remains in a living victim for a long time without causing significant harm, it is called

- A) Dum-dum bullet
- B) Piggyback bullet
- C) Souvenir bullet**
- D) Antique bullet

86. DNA fingerprinting was discovered by

- A) Southern
- B) Galton
- C) Crick
- D) Alec Jeffery**

87. The calcium channel blocker having maximum both suppression of automaticity and suppression of conduction is

- A) Verapamil**
- B) Nifedipine
- C) Nicardipine
- D) Amlodipine

88. Of the following anti-diabetic drugs, the second generation sulfonylurea is

- A) Glyburide**
- B) Tolbutamide
- C) Tolazamide
- D) Chlorpropamide

89. Among the following, the drug that may promote hyperglycemia is

- A) Glucocorticoids**
- B) Salicylates
- C) Ethanol
- D) Theophylline

90. In sexually transmitted gynaecological infection of lymphogranuloma venereum, the recommended drug is

- A) Doxycycline**
- B) Metronidazole
- C) Azithromycin
- D) Famciclovir

91. Of the following Cephalosporins, the drug which is active against Pseudomonas is

- A) Ceftazidime**
- B) Cefotaxime
- C) Cefuroxime
- D) Cephadrine

92. Disability adjusted life years means

- A) Health adjusted life expectancy
- B) Disease burden both in quality and quantity of life lived
- C) Number of years lost due to illness, disability or early death**
- D) Number of years lost due to disability

93. A factor that is associated with exposure and outcome but distributed unequally among cases and controls is

- A) Bias
- B) Confounder**
- C) Blinder
- D) Discordant matcher

94. A new screening test for prostate cancer was introduced in a village with population of 1000. The prevalence of prostate cancer is 10%. Out of the total population 200 were found to be positive with the new test. But only 80 among them truly had prostate cancer. What is the sensitivity of the new test?

- A) 20%
- B) 40%
- C) 80%**
- D) 86%

95. In a sub center with a population of 5000 already there are 100 cases of carcinoma breast as on 1st January, 2014. New breast cancer cases detected till December 31st 2014 are 49. The incidence rate of breast cancer in the year 2014 is

- A) 10/1000**
- B) 9.8/1000
- C) 49/1000
- D) 16/1000

96. Ramu 30 years presented to PHC with history of cough for the last 5 months. He gave history of anti-TB treatment for 2 ½ months. But he stopped the medicine for the last 2 months since he was symptomatically better. Now his sputum AFB smear is found to be positive. The line of management is

- A) Continue Category-I treatment
- B) Start again Category-I treatment
- C) Give 1 extra month of continuous phase
- D) Start Category-II treatment**

97. In a triage following a disaster, yellow colour code indicates

- A) High priority treatment
- B) Medium priority treatment**
- C) Ambulatory patients
- D) Dead or moribund patient

98. Countries are considered as hyperendemic for dengue syndrome if

- A) dengue is the leading cause of hospitalization and death
- B) 1 & 3 serotypes are found
- C) it is spreading from urban areas to rural area
- D) all the 4 serotypes are found**

99. A contraceptive is used by 100 couples for a continuous period of 3 years. During this period, 36 women among them became pregnant. PEARL index is

- A) 1 per 100 women years (HWY)
- B) 5 per HWY
- C) 10 per HWY
- D) 12 per HWY**

100. UJJAWALA scheme was to combat

- A) Child marriage
- B) Child labour
- C) Child trafficking**
- D) Child abuse

101. Following is an example for autosomal recessive pattern of inherited genetic disease

- A) Haemophilia A
- B) Colour blindness
- C) Retinoblastoma
- D) Cystic fibrosis**

102. A 12 year old boy with learning disability was seen in the child development centre with a 12 month history of increasingly awkward gait and difficulty getting footwear. On examination he has a scoliosis, marked pes cavus, absent lower limb reflexes and extensor plantar responses. What is the most likely diagnosis?

- A) Dermatomyositis
- B) Duchenne muscular dystrophy
- C) Friedreich's ataxia**
- D) Hereditary motor and sensory neuropathy

103. A previously well 16 year old boy presented to outpatients with a 6 month history of frequent headaches. Recent problems with balance had occurred while playing football for his school team. The headaches were relieved by lying flat. There was a strong family history of migraine. Physical examination was normal apart from a positive Romberg sign and unsteadiness on attempting to heel-toe walk. Reflexes were normal. Most probable diagnosis is.

- A) Arnold-Chiari malformation type 1**
- B) Idiopathic (benign) intracranial hypertension
- C) Late onset muscular dystrophy (Becker)
- D) Complicated migraine

104. A child can walk well holding on to furniture but is slightly wobbly when walking alone. She uses a neat pincer grasp to pick up a pellet and she can release a cube into a cup after it has been demonstrated to her. She tries to build a tower of two cubes with variable success. She is most likely at which of the following age?

- A) 4 months
- B) 6 months
- C) 9 months
- D) 1 year**

105. An 8 month old infant arrives to the emergency department (ED) with a 2 day history of diarrhea and poor fluid intake. Your quick examination reveals a lethargic child; his heart rate is 180 beats per minute, his respiratory rate is 30 breaths per minute and his blood pressure is low for age. He has poor skin turgor, 5 second capillary refill and cool extremities. Which of the following fluids is most appropriate management for his condition?

- A) Dextrose 5% in 1/4 normal saline (D5 1/4 NS)
- B) Dextrose 5% in 1/2 normal saline (D5 1/2 NS)
- C) Normal saline**
- D) Whole blood

106. During the examination of a 2 month old infant, you note that the infant's umbilical cord is still firmly attached. This finding prompts you to suspect which of the following?

- A) Occult omphalocele
- B) Leukocyte adhesion deficiency**
- C) Umbilical granuloma
- D) Persistent urachus (Urachal cyst)

107. Winging of scapula is associated with following nerve injury

- A) Dorsal scapular
- B) Long thoracic**
- C) Spinal accessory
- D) Posterior cervical

108. Brown tumour is associated with

- A) Metastasis
- B) Hyperparathyroidism**
- C) Osteosarcoma
- D) Ewing's Sarcoma

109. Froment's sign is elicited for

- A) Radial nerve
- B) Ulnar nerve**
- C) Median nerve
- D) Posterior interosseous nerve

110. Bohler's angle is measured in X-rays in fractures involving the following bone

- A) Cuboid
- B) Calcaneum**
- C) Navicular
- D) Talus

111. Following statement is true in Osteochondroma

- A) It arises from diaphysis
- B) It is covered by cartilaginous cap**
- C) It grows towards the neighboring joint
- D) Growth continues after skeletal maturity

112. Infection of the flexor tendon of index finger can spread to

- A) Thenar space**
- B) Radial bursa
- C) Midpalmar space
- D) Dorsum of hand

113. Kienbock's disease represents osteochondritis of

- A) Scaphoid
- B) Talus
- C) Lunate**
- D) Metatarsals

114. Which of the following is a marker of new bone formation?

- A) Alkaline phosphatase**
- B) Acid phosphatase
- C) Hydroxyproline
- D) Telopeptides

115. Total Claw hand is caused by injury to

- A) Radial nerve
- B) Ulnar + Radial nerve
- C) Median + Ulnar nerve**
- D) Median + Radial nerve

116. "Bamboo Spine" is seen in

- A) Ankylosing Spondylitis**
- B) Rheumatoid Arthritis
- C) Scheurmann's disease
- D) Pott's spine

117. Which of the following human papilloma virus genotypes have been found to be most commonly associated with cervical cancer
- A) Genotypes 6 & 8
 - B) Genotypes 12 & 14
 - C) Genotypes 16 & 18**
 - D) Genotypes 20 & 22
118. Which of the following vaccine produces mucosal immunity
- A) Sabin polio vaccine**
 - B) DPT vaccine
 - C) BCG vaccine
 - D) Salk polio vaccine
119. The graft taken from an individual and placed on another individual of the same genetic constitution i.e identical twin is called as
- A) Autograft
 - B) Isograft**
 - C) Xenograft
 - D) Allograft
120. Extensive drug resistant tuberculosis (XDR-TB) is defined as multidrug resistant TB (MDR- TB) strain that becomes resistant to
- A) Pyrazinamide and any one of the fluoroquinolones
 - B) Ethambutol and any one of the fluoroquinolones
 - C) Any one of second line aminoglycosides and one of the fluoroquinolones**
 - D) Vancomycin and one of the fluoroquinolones
121. This question is deleted
122. All are measures to reduce intracranial hypertension EXCEPT
- A) Hypoventilation**
 - B) Barbiturate therapy
 - C) Therapeutic hypothermia
 - D) Cerebrospinal fluid (CSF) drainage
123. Phase II block is associated with the use of
- A) Depolarizing drugs**
 - B) Non depolarizing drugs
 - C) Inhalational agents
 - D) Anticholinesterases
124. Which one of the following is a specific benzodiazepine antagonist
- A) Diazepam
 - B) Naloxone
 - C) Flumazenil**
 - D) Neostigmine
125. Most sensitive method for the detection of intraoperative myocardial ischemia is
- A) Electrocardiogram-ST segment monitoring
 - B) Pulmonary capillary wedge pressure measurement
 - C) Coronary sinus lactate estimation
 - D) Transesophageal echocardiography**

126. Pin index for oxygen is

- A) 1,5
- B) 2,5**
- C) 3,5
- D) 4,5

127. The rate of dark adaptation is abnormal in all EXCEPT

- A) Chronic iridocyclitis**
- B) Retinitis pigmentosa
- C) Vitamin A deficiency
- D) Primary open angle glaucoma

128. A patient using contact lens develops ring infiltrate in the cornea and has severe pain. There was no history of trauma. The most probable diagnosis is

- A) Acanthamoeba Keratitis**
- B) Bacterial Keratitis
- C) Fungal Keratitis
- D) Viral Keratitis

129. Retinoblastoma develops following mutation or deletion of chromosome

- A) 13q14**
- B) 13p14
- C) 14p13
- D) 14q13

130. Features of blunt trauma in the eye may include all EXCEPT

- A) Rosette- shaped cataract
- B) Vossius ring
- C) Berlin's edema
- D) Weiss ring**

131. Which of the following drugs used in ophthalmology has both mast cell stabilizing and anti-histaminic effect

- A) Cromolyn sodium
- B) Ketotifen**
- C) Olopatadine**
- D) Lodoxamide

132. Birbeck granules are characteristically seen in

- A) Granulomatous vasculitis
- B) Langerhans cell histiocytosis**
- C) Pulmonary alveolar proteinosis
- D) Primary amyloidosis

133. The commonest testicular tumour occurring in children below 3 years is

- A) Seminoma
- B) Teratoma
- C) Yolk sac tumour**
- D) Dysgerminoma

134. Autosomal dominant inherited cancer syndromes include all EXCEPT

- A) Retinoblastoma
- B) Li-Fraumeni syndrome
- C) Familial adenomatous polyposis
- D) Xeroderma pigmentosum**

135. An example of type 3 hypersensitivity reaction is

- A) Acute rheumatic fever
- B) Rheumatoid arthritis
- C) Myasthenia gravis
- D) Polyarteritis nodosa**

136. The type of amyloid seen in patients undergoing long term hemodialysis is

- A) Transthyretin
- B) Amyloid light chain
- C) β_2 microglobulin**
- D) Bence Jones protein

137. Which one of the following plasma clearance tests may be used for measuring renal blood flow?

- A) Para amino hippuric acid clearance test**
- B) Urea clearance test
- C) Creatinine clearance test
- D) Inulin clearance test

138. Which one of the following pressures will remain sub-atmospheric during both inspiratory and expiratory phases of quiet breathing?

- A) Intra alveolar pressure
- B) Intra abdominal pressure
- C) Intra thoracic pressure
- D) Intra pleural pressure**

139. A person is having tidal volume 500 ml, vital capacity 4700 ml and inspiratory capacity 3500 ml. His expiratory reserve volume will be

- A) 4200 ml
- B) 3000 ml
- C) 1200 ml**
- D) 700 ml

140. A blood sample had PCV 0.45L, total RBC count $5 \times 10^{12}/L$ and Hb 150g/L; The MCV value of this sample will be

- A) 30 pg
- B) 33.33 %
- C) 100 μL
- D) 90 fL**

141. Lesion in area postrema will NOT abolish vomiting response in case of

- A) Pregnancy
- B) Opiate injection
- C) Gastric irritation**
- D) Chemotherapy

142. The mucosa of the oesophagus is lined by

- A) Simple squamous epithelium
- B) Stratified squamous epithelium**
- C) Simple columnar epithelium
- D) Ciliated columnar epithelium

143. Optic radiation traverses through the

- A) Anterior limb of internal capsule
- B) Posterior limb of internal capsule
- C) Retrolentiform part of internal capsule**
- D) Sublentiform part of internal capsule

144. Dangerous layer of scalp is

- A) Skin
- B) Dense subcutaneous tissue
- C) Epicranial aponeurosis
- D) Loose connective tissue**

145. Heart tube is derived from

- A) Intra-embryonic somatopleuric mesoderm
- B) Intra-embryonic splanchnopleuric mesoderm**
- C) Extra-embryonic somatopleuric mesoderm
- D) Extra-embryonic splanchnopleuric mesoderm

146. Damage to external laryngeal nerve produces weakness of voice due to paralysis of

- A) Cricothyroid muscle**
- B) Thyroarytenoid muscle
- C) Lateral cricoarytenoid muscle
- D) Posterior cricoarytenoid muscle

147. All the following metabolic processes occur in the mitochondria EXCEPT

- A) Oxidative phosphorylation
- B) β oxidation of fatty acids
- C) Ketone body production
- D) HMP shunt pathway**

148. Enzyme defect in Tay Sach's disease

- A) β glucosidase
- B) β Galactosidase
- C) Hexosaminidase A**
- D) Sphingomyelinase

149. Mental retardation occurs in all the following conditions, EXCEPT

- A) Phenylketonuria
- B) Maple syrup urine disease
- C) Homocystinuria
- D) Alkaptonuria**

150. Phase I reactions in detoxification include all, EXCEPT

- A) Hydroxylation
- B) Oxidation
- C) Dealkylation
- D) Conjugation**

* * *

Note:

1. For question numbers 53 & 131, two answers are correct and hence marks will be awarded for both the answers.
2. This is the final key. Further queries with regard to question paper and key will not be entertained under any circumstances.