

1. Which of the following segment does the right lobe of liver contain ?
 - (A) V, VI, VII, VIII
 - (B) I, II, III, IV
 - (C) IV, V, VI, VII, VIII
 - (D) I, II, III, IV, V

2. Spiral valves of heister are present in :
 - (A) Cystic duct
 - (B) Preampullary part of bile duct
 - (C) Fundus of gallbladder
 - (D) Hepatic artery

3. Valoeon sheath referes to :
 - (A) Fibrous sheath around broncho-pulmonary segments
 - (B) Condensation of connective tissue around splenic vessels at hilum
 - (C) Fibrous sheath surrounding hepatic artery, bile duct, portal vein in each liver segment
 - (D) None of these

4. Brachial cyst develops due to the persistence of :
 - (A) First branchial cleft
 - (B) Third branchial cleft
 - (C) Cervical sinus
 - (D) Fourth branchial cleft

5. Inferior thyroid vein drains into :
 - (A) Internal jugular vein
 - (B) Brachiocephalic vein
 - (C) SVC
 - (D) External jugular vein

6. Synaptic conduction is mostly orthodromic because :
 - (A) Dendrites cannot be depolarized
 - (B) Once repolarized, an area cannot be depolarized
 - (C) The strength of antidromic impulse is less
 - (D) Chemical mediator is localised only in presynaptic terminal

7. Function of phospholambanis :
 - (A) Regulates Na k pump
 - (B) Transports calcium out of mitochondria
 - (C) Binds actin with myosin
 - (D) Collect calcium into the sarcoplasmic reticulum

8. TRUE regarding human heart :
- (A) Conduction of impulse from endocardium to inwards
 - (B) During exercise duration of systole is reduced more than diastole
 - (C) HR increases with parasympathetic denervation
 - (D) Vagal stimulation increase force of contraction
9. Direct Fick's method of measuring cardiac output requires estimation of:
- (A) O₂ content of arterial blood
 - (B) O₂ content of venous blood
 - (C) O₂ consumption per unit time
 - (D) All of these
10. Volume receptors are
- (A) Affected by total cardiovascular output
 - (B) Stimulated by atrial systole and diastole
 - (C) Stimulated by left ventricular contraction
 - (D) Stimulated by aortic pressure
11. Fluoroacetate inhibits :
- (A) Citrate synthase
 - (B) Succinate dehydrogenase
 - (C) Aconitase
 - (D) Alpha ketoglutarate
12. Immediate precursor of ketone bodies :
- (A) Acetyl - CoA
 - (B) HMG - CoA
 - (C) Acetoacetyl - CoA
 - (D) Acyl - CoA
13. "Classical phenylketonuria" is caused by the deficiency of :
- (A) Phenylalanine transaminase
 - (B) Phenylalanine hydroxylase
 - (C) Tyrosinase transaminase
 - (D) Tyrosinase hydroxylase
14. A child develops plaster on exposure to sunlight. Irregular dark spots on the skin are also found. He is very likely to have a defect in which mechanism ?
- (A) Nucleotide excision repair
 - (B) Mismatch repair
 - (C) Recombination repair
 - (D) Thymine dimer

15. Adenosine phosphoribosyltransferase is involved in:
- Denovo purine synthesis
 - Purine degradation
 - Salvage synthesis of purine nucleotides
 - None of these
16. Carboxylation of clotting factors by Vitamin K is required to the biologically active. Which of the following amino acid is carboxylated?
- Histidine
 - Histamine
 - Glutamate
 - Aspartat
17. Heme is which perpgysin?
- Type I
 - Type II
 - Type III
 - Type IV
18. Which of the following porphyrin is soluble in water and excerated in urine?
- Protoporphyrin
 - Delta-ALA
 - Copos pospgysin
 - Uroperpgysin
19. In molecular cloning, blue white screen is used for:
- To screen for recombinant vats
 - To detect gene mutation
 - To identify chesered chromosomal DNA insert in plasmid vect
 - To detect host DNA insite
20. Oncogenes can be best studied by:
- Transfection
 - Transduction
 - Transformation
 - Conjugation
21. If a drug is absorbed through skin, what is the order of maximum percutaneous absorption of drug from the given routes?
- Scalp > Scrotum > Posterior auricular > Dorsum of hand > Plantar area
 - Plantar area > Dorsum of hand > Scalp > Scrotum > Posterior auricular
 - Scrotum > Scalp > Posterior auricular > Dorsum of hand > Plantar area
 - Posterior auricular > Scrotum > Scalp > Dorsum of hand > Plantar area

22. Nitroglycerine is effective when administered sublingually because :
- (A) Ionized and lipid soluble
 - (B) Non-ionized and lipid soluble
 - (C) Non-ionized and water insoluble
 - (D) Ionized and water insoluble
23. Which of the following antiplatelet drug is prodrug ?
- (A) Tirofibrin
 - (B) Aspirin
 - (C) Clopidogrel
 - (D) Dipyridamol
24. Which of the following is a sedative beta-2 antagonist ?
- (A) Butoxamine
 - (B) Esmolol
 - (C) Betaxolol
 - (D) Celiprolol
25. Propanol is contraindicated in diabetes mellitus because it :
- (A) Causes seizures
 - (B) Causes hypotension
 - (C) Causes hyperglycemia
 - (D) Mask the hyperglycemic symptoms
26. Which of the following is a venodilator ?
- (A) Hydralazine
 - (B) Minoxidil
 - (C) Nitroprusside
 - (D) Nifedipine
27. A 3 years old child was undergoing squint surgery. Initial heart rate was 14 beats/min. After anaesthesia and start of surgery heart rate dropped to 40 beats/min. What should be the next step ?
- (A) Decrease plane of anaesthesia
 - (B) Stop surgery
 - (C) Inj glycopyrrolate
 - (D) Inj atropine
28. Organophosphates act by inhibiting the enzymes acetyl-cholinesterase. Which type of enzyme inhibitors are they ?
- (A) Competitive and reversal
 - (B) Uncompetitive and reversal
 - (C) Non-competitive and irreversible
 - (D) Non-competitive and reversal

29. After taking some drug for acute attack of migraine, a patient developed nausea and vomiting. He also developed tingling and numbness in the tip of finger that are also turned blue. Which of the following is the most likely drug implicated in causing above findings ?
- (A) Dihydroergotamine
(B) Aspirin
(C) Sumatriptan
(D) Butorphenol
30. Sodium nitropruside acts by activation of :
- (A) Guanylate cyclase
(B) K⁺ channels
(C) Ca⁺ channels
(D) Cyclic AMP
31. Caspases are involved in :
- (A) Apoptosis
(B) Pinocytosis
(C) Cell signaling
(D) Cell injury
32. Anitschkow cells are :
- (A) Modified macrophages
(B) Modified neutrophils
(C) Modified B-cells
(D) Modified RBCs
33. Factor X-deficiency is associated with which of the following types of amyloidosis ?
- (A) AL
(B) A β
(C) ATTR
(D) APrP
34. Small, warty vegetations along with the lines of closure of valve leaflets are seen in :
- (A) RHD
(B) Infective endocarditis
(C) Libman Sack's endocarditis
(D) NBTE
35. All are examples of hypersensitivity mediated by antibodies, except :
- (A) Pemphigus vulgaris
(B) Erythroblastosis fetalis
(C) Pernicious anemia
(D) Serum sickness

36. Which of the following is not the tumor suppressor gene ?
- (A) Wt-1
 - (B) p53
 - (C) RB
 - (D) RAS
37. An anti-inflammatory cytokine is :
- (A) IL-1
 - (B) TNF
 - (C) IL-4
 - (D) IFN- γ
38. Type of protein deposited in hemodialysis associated amyloidosis is :
- (A) Immunoglobulin light chain
 - (B) AANF
 - (C) AB2m
 - (D) Ab
39. Weber-Osler-Rendu syndrome is a disorder of :
- (A) Collagen
 - (B) Platelets
 - (C) Clotting factors
 - (D) Blood vessels
40. Russel bodies are accumulation of :
- (A) Cholesterol
 - (B) Immunoglobulin
 - (C) Lipoprotein
 - (D) Phospholipids
41. Darting motility is shown by :
- (A) Histeria
 - (B) Campylobacter
 - (C) Bonclia
 - (D) Mycoplasma
42. A patient is suffering from pneumonia. Laboratory study shows acid fast filamentous bacteria. The causative organism is :
- (A) M. Tuberculosis
 - (B) Actinomyces
 - (C) Nocardis
 - (D) Mycobacterium avium intercellulose

43. Membrane attack complex is :
- (A) C3b
 - (B) C5-9
 - (C) C1-3
 - (D) C4-5
44. Sterilization is defined as :
- (A) Disinfection of skin
 - (B) Complete destruction of all micro organisms
 - (C) Destruction of pathogenic organism
 - (D) Decrease bacterial count from objects
45. PLET medium is used for :
- (A) Plague
 - (B) Anthrax
 - (C) Typhoid
 - (D) Cholera
46. Which of the following is a sexual spore ?
- (A) Chlamyospore
 - (B) Sporangiospore
 - (C) Ascospore
 - (D) Phialoconidia
47. A farmer from the sub Himalayan region presents with multiple vesicles on hand and multiple eruptions along the lymphatics. The most likely causative agent is :
- (A) *Trichophyton rubrum*
 - (B) *Clasdosporium species*
 - (C) *Sporothrix schenckii*
 - (D) *Aspergillus*
48. Differential coliform count is done by :
- (A) Multiple tube method
 - (B) VR medium
 - (C) MacConkey's agar
 - (D) Eijkman test
49. Which is false about Spaulding classification ?
- (A) Non-critical items also included in classification
 - (B) Semi-critical items contacts with mucus membrane
 - (C) Semi-critical items needs low disinfectant
 - (D) Cardiac catheter e.g. of critical items

50. Which of the following statement is false regarding communicability with reference to malarial parasite ?
- (A) The gametocytes appear in blood 4-5 days after appearance of 1st asexual form in *P. vivax*.
- (B) The gametocytes appear in blood 10-12 days after appearance of first asexual form in *P. falciparum*.
- (C) The number of gametocytes increase in blood with time.
- (D) The number of gametocytes may exceed 100 per cumm of blood.
51. Perjury means giving wilful false evidence by a witness while under oath, the witness is liable to be prosecuted for perjury and the imprisonment may extend to 7 years. This falls under which Section of IPC ?
- (A) 190 of Indian Penal Code
- (B) 191 of Indian Penal Code
- (C) 192 of Indian Penal Code
- (D) 193 of Indian Penal Code
52. A case of suspected homicide comes to a doctor. He is supposed to inform the police under Section _____ of Cr PC(Criminal Penal Code).
- (A) 174
- (B) 39
- (C) 37
- (D) 176
53. "Juvenile Court" is presided over by:
- (A) First Class Female Magistrate
- (B) Second Class Female Magistrate
- (C) Second Class Male Magistrate
- (D) District Magistrate
54. Declaration of Geneva is related with :
- (A) Medical etiquette
- (B) Disciplinary control
- (C) Hippocratic oath
- (D) Professional misconduct

55. Leaving or forgetting an instrument or sponge in the abdomen of the patient during a surgery and closing the operation is :
- (A) Contributory negligence
 - (B) Civil negligence
 - (C) Corporate negligence
 - (D) Criminal negligence
56. Doctor who did surgery on wrong side of the patient is punishable under which Section ?
- (A) Section 304A IPC
 - (B) Section 306 IPC
 - (C) Section 307 IPC
 - (D) Section 305 IPC
57. Preauricular sulcus helps in detection of :
- (A) Age
 - (B) Sex
 - (C) Race
 - (D) Height
58. Gustafson's method used for age estimation of tooth includes all, except :
- (A) Primary dentition
 - (B) Root resorption
 - (C) Root transparency
 - (D) Attrition
59. Most reliable method of identification of a person is :
- (A) Gustafson's method
 - (B) Galton Method
 - (C) Anthropometry
 - (D) Scars
60. Suspended animation may be seen with which of the following ?
- (A) Electrocution
 - (B) Salicylate poisoning
 - (C) Snake Bite
 - (D) Burns
61. The ideal place to record body temperature in dead body is :
- (A) Rectum
 - (B) Axilla
 - (C) Mouth
 - (D) Groin

62. Cadaveric spasm involves :
- (A) Voluntary muscles
 - (B) Involuntary muscles
 - (C) Both (A) and (B)
 - (D) Smooth muscles
63. Lacrated wounds look like incised wounds over :
- (A) Scalp
 - (B) Abdomen
 - (C) Thigh
 - (D) Forearm
64. Motocyclist fracture among the following is :
- (A) Ring fracture
 - (B) Sutural separation
 - (C) Comminuted fracture of skull
 - (D) Depressed fracture of skull
65. In a patient of unilateral loss of vision, the patient had injury to opposite eye leading to corneal opacification. The patient was operated by corneal grafting, he could see clearly again with one eye. The injury is said to be :
- (A) Simple
 - (B) Grievous injury
 - (C) Dangerous
 - (D) None of these
66. Natural history of disease is studied with :
- (A) Longitudinal studies
 - (B) Cross-sectional studies
 - (C) Trials
 - (D) None of these
67. Spot maps are used for a disease in Epidemiology for depiction of :
- (A) Local distribution
 - (B) Rural-urban variations
 - (C) National variations
 - (D) International variations
68. The following is true about prevalence and incidence :
- (A) Both are rates
 - (B) Prevalence is a rate but incidence is not
 - (C) Incidence is a rate but prevalence is not
 - (D) Both are not rates

69. Case fatality rate is :

- (A) Spreading power of a disease
- (B) Killing power of a disease in a time
- (C) Killing power of a disease with no time interval
- (D) Resistance of disease

70. Migration study is used to study :

- (A) Sociodemographic reasons for migration of a population
- (B) Prevalence of disease in a population
- (C) Environmental and genetic factors in a disease in a population
- (D) Diseases with long incubation period

71. Berksonian bias is a type of :

- (A) Information bias
- (B) Selection bias
- (C) Interviewer bias
- (D) Recall bias

72. Confounding can be removed by :

- (A) Assign confounders equally to both the cases and controls
- (B) Stratification
- (C) Matching
- (D) All of these

73. Window period is defined as the time taken from :

- (A) Entry in cell to expulsion of first viral particle
- (B) Entry of pathogen to appearance of first clinical symptom
- (C) Exposure to laboratory detection of disease
- (D) Entry of organism to maximum communicability

74. Which is indirect mode of transmission ?

- (A) Hand contact
- (B) Through placenta
- (C) Vector-borne
- (D) Dog-bite

75. The area is declared free of epidemic :

- (A) Till last secondary case recovers
- (B) No new case reported for incubation period of disease since last case
- (C) No new case reported for twice the incubation period of disease since last case
- (D) No new case reported for six months since the last case

76. Vaccine associated paralytic poliomyelitis develops after _____ days of OPV administration.

- (A) 7-14
- (B) 20-60
- (C) 60-90
- (D) Immediately

77. Dokoral, Sanchol, mORC VAX are used for the production of :

- (A) Typhoid vaccine
- (B) Cholera vaccine

(C) Influenza vaccine

(D) Swine flu vaccine

78. Ring vaccination is :

- (A) Given by a ring shaped machine
- (B) Given to produce a ring shaped lesion
- (C) Given around 200 yards of a case detected
- (D) Given around a mile of a case detected

79. KAP studies were first used in India to study :

- (A) HIV
- (B) Malaria
- (C) Family planning
- (D) Carcinoma cervix

80. WHO criteria for epidemic of meningococcal disease is :

- (A) 0.1%
- (B) 0.01%
- (C) 0.001%
- (D) 1%

81. Most common skin related complaints in patients with HIV :
- (A) Idiopathic pruritus
 - (B) Fungal infection
 - (C) Seborrheic dermatitis
 - (D) Folliculitis
82. Binkley spots are also known as :
- (A) Diabetic demopathy
 - (B) Cutaneous sarcoidosis
 - (C) Lupus vulgaris
 - (D) Rain drop pigmentation
83. Tripe palms alone is most commonly associated with which internal malignancy ?
- (A) Breast Cancer
 - (B) Lung Cancer
 - (C) Gastric Carcinoma
 - (D) Colon Cancer
84. Leukemiacutis is most commonly associated with :
- (A) Acute Lymphocytic Leukemia
 - (B) Chronic Lymphocytic Leukemia
 - (C) Acute Myeloid Leukemia
 - (D) Chronic Myeloid Leukemia
85. Common to all rashes in secondary syphilis is / are :
- (A) Do not itch
 - (B) Are coppery red in colour
 - (C) Are symmetrical
 - (D) All of these
86. BTA patient with normal USG but tenderness in left lumbar region. Best investigation is :
- (A) MCU
 - (B) IVP
 - (C) CECT whole abdomen
 - (D) Repeat USG
87. Investigation using dye to find out stone in salivary gland is :
- (A) Sialography
 - (B) Mammography
 - (C) MRA
 - (D) USG
88. After mammography if there is suspected lesion BIRADS staging system advices :
- (A) FNAC
 - (B) Lumpectomy
 - (C) MRI
 - (D) Mammogram

89. 25 yrs old female presenting with lump in breast to OPD. First investigation is :
- (A) USG
 - (B) Mammogram
 - (C) MRI
 - (D) PET
90. Intraoperative sentinel lymph node detection in axillae is done by using :
- (A) Mammography
 - (B) Isosulphan Blue
 - (C) MRI
 - (D) CT Scan
91. Weber Ferguson Incision is used in :
- (A) Breast Cancer
 - (B) Carcinoma hard palate
 - (C) Thyroid cancer
 - (D) Carcinoma penis
92. Management of lip carcinoma < 2 cm is :
- (A) Surgery
 - (B) RT
 - (C) RT + CT
 - (D) CT
93. In head and neck cancer N2a is :
- (A) Single node ≤ 3 cm
 - (B) Single node > 3 cm & < 6 cm
 - (C) Multiple ipsilateral nodes
 - (D) All nodes < 6 cm
94. For Leukoplakia treatment is :
- (A) Local excision
 - (B) Excision and radiotherapy
 - (C) Topical chemotherapy
 - (D) Repositioning of ill fitting dentures
95. Conley's pointer is used to identify :
- (A) Lingual nerve
 - (B) Hypoglossal nerve
 - (C) Facial nerve
 - (D) All of these
96. P-ANCA is the characteristic for :
- (A) PAN
 - (B) Microscopic Polyangiitis
 - (C) Wegners Granulomatosis
 - (D) HS Purpura

97. Shrinking lung syndrome is seen in :
- (A) SLE
 - (B) Rheumatoid Arthritis
 - (C) Sarcoidosis
 - (D) Scleroderma
98. Metabolic complication in CRF is all, except :
- (A) Hyperkalemia
 - (B) Hypophosphatemia
 - (C) Hypocalcemia
 - (D) Hypokalemia
99. Good Pasture Syndrome is characterised by :
- (A) Anti GBM antibody
 - (B) P-ANCA
 - (C) C-ANCA
 - (D) Anti Nuclear Antibody
100. Typical feature of minimal change disease include :
- (A) Normal Light Microscopy
 - (B) FSGS
 - (C) Tubular Sclerosis
 - (D) Glomerular Sclerosis
101. The earliest feature of Diabetic nephropathy is :
- (A) Microalbuminuria
 - (B) Increased serum creatinine
 - (C) Nephritic syndrome
 - (D) Hematuria
102. The most common Histological Variant of RCC is .
- (A) Clear cell type
 - (B) Chromophobe type
 - (C) Papillary
 - (D) Tubular
103. Broca Aphasia is :
- (A) Fluent Aphasia
 - (B) Non-Fluent Aphasia
 - (C) Sensory aphasia
 - (D) Conduction Aphasia
104. Bulbar paralysis refers to :
- (A) Motor Neuron Disease
 - (B) UMN lesion
 - (C) IX to XII cranial nerve paralysis
 - (D) III to XII cranial nerve paralysis