

017/2021

Question Booklet
Alpha Code

A

Question Booklet
Serial Number

Total No. of Questions : 100

Time : 75 Minutes

Maximum : 100 Marks

INSTRUCTIONS TO CANDIDATES

1. The question paper will be given in the form of a Question Booklet. There will be four versions of question booklets with question booklet alpha code viz. A, B, C & D.
2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the question booklet.
3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
4. If you get a question booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your question booklet is un-numbered, please get it replaced by new question booklet with same alpha code.
6. The question booklet will be sealed at the middle of the right margin. Candidate should not open the question booklet, until the indication is given to start answering.
7. Immediately after the commencement of the examination, the candidate should check that the question booklet supplied to him contains all the 100 questions in serial order. The question booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
8. Blank sheets of paper is attached to the question booklet. These may be used for rough work.
9. **Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.**
10. Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball-Point Pen in the OMR Answer Sheet.
11. **Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.**
12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

017/2021-A



017/2021

Total Marks : 100 Marks

Time : 1 hour and 15 minutes

1. The junctional complex seen abundantly in Stratum Spinosum is _____.
(A) Zonula Occludens (B) Zonula Adherens
(C) Fascia Adherens (D) Macula Adherens
2. Obelion is a point on _____.
(A) Sagittal suture (B) Lambdoid suture
(C) Parietal bone (D) Occipital bone
3. A cerebellar glomerulus is formed of all the following, EXCEPT :
(A) Golgi Cell Axon (B) Purkinje Dendrite
(C) Granule Cell Dendrite (D) Mossy Fibre
4. Articularis genu is supplied by _____ nerve.
(A) Obturator (B) Femoral
(C) Saphenous (D) Common Peroneal
5. Which Enzyme is deficient in Niemann Pick diseases ?
(A) Ceramidase (B) α -Galactosidase A
(C) β -Galactosidase B (D) Sphingomyelinase
6. Which among the following inhibits Complex IV of Electron Transport Chain ?
(A) Rotenone (B) Valinomycin
(C) Carbon monoxide (D) Amobarbital
7. Which among the following is not a flavoprotein ?
(A) Acyl CoA Dehydrogenase (B) Glutamate dehydrogenase
(C) L-amino acid oxidase (D) NADH dehydrogenase
8. Which of the following is a non-heme iron compound ?
(A) Catalase (B) Peroxidase
(C) Cytochrome Oxidase (D) Ferritin

9. Select the FALSE Statement :
- (A) AV node cannot conduct impulses more than 230 per minute in adults.
 - (B) Dizziness and fainting in Stokes-Adams syndrome is due to cerebral ischemia.
 - (C) Oculocardiac reflex can convert tachycardia to normal sinus rhythm.
 - (D) Ventricular premature beats interrupt the regular discharge of the SA node.
10. All of the following produce steatorrhea, EXCEPT :
- (A) Cholecystectomy
 - (B) Defective reabsorption of bile salts
 - (C) Hypersecretion of gastric acid
 - (D) Lipase deficiency
11. Primary adrenal insufficiency can be distinguished from secondary by
- (A) Diffuse tanning of the skin and spotty pigmentation
 - (B) Fatal hypoglycemia on fasting
 - (C) Severe hypotension and shock known as Addisonian crisis
 - (D) Severe pallor because of the absence of ACTH
12. Select the WRONG statement from the following :
- (A) Cerebellar hemisphere controls the ipsilateral side of the body.
 - (B) Second order neurons of dorsal column tract begin from nucleus gracilis and cuneatus.
 - (C) Merkel's disc and Ruffini endings are examples of rapidly adapting receptors.
 - (D) Muscle spindles and nociceptors are slowly adapting receptors.
13. Criminal responsibility by a person is attained by the age of :
- (A) 5 years
 - (B) 7 years
 - (C) 16 years
 - (D) 18 years
14. Dermatoglyphics is a method to determine the following :
- (A) age
 - (B) identity
 - (C) stature
 - (D) socio-economic status
15. The term p300 is related to :
- (A) brain fingerprinting
 - (B) DNA fingerprinting
 - (C) narco-analysis
 - (D) polygraphy
16. Endogenous burns are associated with :
- (A) lightning stroke
 - (B) low voltage electrocution
 - (C) fire & explosions
 - (D) run-over injuries

17. Serological test commonly used for diagnosis of scrub typhus
(A) VDRL (B) Widal
(C) Cold agglutination (D) Weil Felix
18. Parasite in which man act as an intermediate host
(A) *Trichomonas vaginalis* (B) *Giardia lamblia*
(C) *Echinococcus granulosus* (D) *Ascaris lumbricoides*
19. Which one of the following is a differential medium ?
(A) Chocolate agar (B) Lowenstein Jensen medium
(C) Nutrient agar (D) Mac Conkey agar
20. Disease transmitted by *Aedes aegypti*
(A) Dengue fever (B) Japanese encephalitis
(C) Kyasanur forest disease (D) Crimean congo haemorrhagic fever
21. Indian file morphology is characteristic of
(A) Invasive ductal carcinoma (B) Invasive lobular carcinoma
(C) Medullary carcinoma (D) Metaplastic carcinoma
22. Brown atrophy of organs is related to
(A) Lipofuscin (B) Melanin
(C) Hemosiderin (D) Bilirubin
23. Extra nodal NK/T-cell Lymphoma Nasal type is characterised by all of the following, except :
(A) Angio invasion and Angio destruction
(B) Coagulative tumor necrosis
(C) CD2 and CD56 positivity
(D) Strong HTLV-1 Association
24. Which is not a feature of Sub Ependymal Giant cell Astrocytoma ?
(A) Occurs in the setting of Tuberous Sclerosis
(B) Typically presents in 1st – 2nd decades of life
(C) Rapidly growing tumors with invasion into adjacent cerebral structures
(D) Presence of ganglion like cells and calcification

25. All the following statements regarding Linezolid are true, except :
- (A) It is primarily bactericidal.
 - (B) It has good oral bioavailability.
 - (C) It is a MAO-inhibitor.
 - (D) Prolonged use can cause myelosuppression.
26. Lubiprostone is used in the treatment of
- (A) Glaucoma
 - (B) Induction of labour
 - (C) Irritable bowel syndrome
 - (D) Peptic ulcer
27. Voglibose acts by inhibiting
- (A) aldose reductase
 - (B) alpha glucosidase
 - (C) GLP-1
 - (D) PPAR- α
28. All the following drugs are uricosuric agents used in chronic gout, except :
- (A) Sulfin pyrazone
 - (B) Probenecid
 - (C) Benzbromarone
 - (D) Febuxostat
29. Time gap between primary and secondary case is
- (A) Serial interval
 - (B) Generation time
 - (C) Median incubation period
 - (D) Secondary attack rate
30. Strength of sewage is expressed in terms of
- (A) *Biological oxygen demand*
 - (B) *Suspended solids*
 - (C) *Chemical oxygen demand*
 - (D) *E. coli* count
31. The highest percentage of poly unsaturated fatty acids (PUFA) is present in
- (A) Groundnut oil
 - (B) Margarine
 - (C) Safflower oil
 - (D) Palm oil
32. Mifepristone (RU-486) used for medical abortion is
- (A) Antifolate
 - (B) Antiprogestosterone
 - (C) Antioestrogenic
 - (D) Prostaglandin derivative
33. Goldenhar syndrome contains all the following features, except :
- (A) Hypoplasia of facial bone
 - (B) Polydactyly
 - (C) Preauricular skin tags
 - (D) Bilateral limbal dermoids

34. The most common cause of Acute Bacterial conjunctivitis among the following are
(A) *Staphylococcus albus* (B) *Corynebacterium diphtheria*
(C) *Streptococcus pneumonia* (D) *Staphylococcus aureus*
35. All are causes of Miosis, except :
(A) Belladonna poisoning
(B) Organoposporous compound poisoning
(C) Pontine haemorrhage
(D) Morphine poisoning
36. Salu's Sign is seen in
(A) Diabetic retinopathy (B) Hypertensive retinopathy
(C) Retinitis pigmentosa (D) Retinal detachment
37. Bony labyrinth responsible for hearing
(A) Vestibule (B) Saccule
(C) Stria vascularis (D) Cochlea
38. Hyaline cartilage is seen in
(A) Pinna (B) Epiglottis
(C) Thyroid cartilage (D) Corniculate cartilage
39. Following are tuning fork test, except :
(A) Gelle's test (B) Guttzman's test
(C) Stenger's test (D) Weber test
40. Length of Eustachian tube in adults is
(A) 25 cm (B) 8 cm
(C) 36 mm (D) 16 mm
41. Iron deficiency anemia, koilonychia, dyspagia is seen in
(A) Ortner's syndrome (B) Kartagener's syndrome
(C) Horner syndrome (D) Plummer Vinson syndrome
42. In infant, the most sensitive audiometric screening is
(A) Cortical Evoked Response Audiometry (CERA)
(B) Brainstem Evoked Response Audiometry (BERA)
(C) Electrocochleography (ECochG)
(D) Impedance audiometry

43. Menieres disease is
- (A) Otospongiosis (B) Perilymphatic hydrops
(C) Endolymphatic hydrops (D) Mastoiditis
44. Nasal Endoscopic Surgery is indicated in
- (A) Chronic Sinusitis (B) Epistaxis
(C) Both (D) None
45. A patient with persistent ear discharge, 6th nerve palsy and retro-orbital pain is diagnosed to have
- (A) Sjogrens syndrome (B) Gradenigo syndrome
(C) Frey's syndrome (D) Grisel syndrome
46. Sound produced in Dysphonia plica ventricularis is by
- (A) False vocal cord (B) Ventricle of larynx
(C) True vocal cord (D) Tongue
47. Drugs used for the prophylaxis of migraine are all, except :
- (A) Propranolol (B) Valproate
(C) Topiramate (D) Sumatriptan
48. Joint erosions are not a feature of
- (A) Rheumatoid arthritis (B) Gout
(C) SLE (D) Psoriasis
49. Weight gain is seen in all the following, except :
- (A) Cushings syndrome (B) Hypothyroidism
(C) Phaeocromocytoma (D) Insulinoma
50. Obesity is associated with all complications, except :
- (A) Gall stones (B) Hypertension
(C) Osteoarthritis (D) Pancreatitis
51. In Hepatitis B infection which is not found in blood ?
- (A) HBc Ag (B) HBS Ag
(C) HBe Ag (D) Anti HBc

52. Tolvaptan is a drug used in
(A) Hypokalemia (B) Hyponatremia
(C) Hypocalcemia (D) Hypophosphatemia
53. CAGE questionnaire is used to
(A) Assess severity of hepatic encephalopathy
(B) Stage renal failure
(C) Screen for alcohol abuse
(D) Predict mortality in community acquired pneumonia
54. Which of the following is a sign of lower motor neuron lesion ?
(A) Brisk reflexes (B) Extensor plantar response
(C) Hypotonia (D) Clonus
55. All are true for Low molecular weight heparin compared to unfractionated heparin, except :
(A) Has lower incidence of Heparin induced osteoporosis
(B) No need for lab monitoring
(C) Has lower risk of heparin induced thrombocytopenia
(D) Lesser bioavailability
56. Chikungunya is spread by mosquito
(A) *Aedes aegypti* (B) *Female anopheles*
(C) *Culex quinquefasciatus* (D) *Culex tarsalis*
57. Sleep spindles and K-Complexes in EEG is characteristic of the following stage of sleep :
(A) NREM Sleep Stage 1 (B) NREM Sleep Stage 2
(C) NREM Sleep Stage 3 (D) NREM Sleep Stage 4
58. A 37 year old male report to the Psychiatry OPD with complaints of inability to sleep at night for the past 3 months. Every night he checks whether the lights are off, the taps are closed, the door is locked and whether his child has slept. He cannot sleep if he doesn't check this. This checking behaviour continues in the day time also. He knows that the behaviour is abnormal but cannot resist doing it. What is the most probable diagnosis ?
(A) Claustrophobia (B) Depression
(C) Delusional Disorder (D) Obsessive Compulsive Disorder

59. A syndrome characterized by delusional conviction that other persons in the environment are not their real selves but are their own doubles is
- (A) De Clerambault Syndrome (B) Charles Bonnet Syndrome
(C) Capgras Syndrome (D) Othello Syndrome
60. All the following are seen in Depressive Disorder, EXCEPT :
- (A) Flight of Ideas (B) Psychomotor Agitation
(C) Anhedonia (D) Suicidal Ideations
61. Marked sensitivity to Antipsychotics resulting in severe Extrapyramidal side effects are common in
- (A) AIDS Dementia Complex (B) Lewy Body Dementia
(C) Alzheimer's Dementia (D) Multi-Infarct Dementia
62. Erythema infectiosum is caused by
- (A) Herpes virus (B) Parvovirus B19
(C) Paramyxo virus (D) Ebstein Barr virus
63. Ivermectin is used for treatment of
- (A) Scabies (B) Syphilis
(C) Pityriasis rosea (D) Measles
64. The type of psoriasis more commonly seen in children and adolescents is
- (A) Chronic plaque psoriasis (B) Psoriasis unguem
(C) Acute guttate psoriasis (D) Psoriatic erythroderma
65. The most common sensitizer among topical antibiotics is
- (A) Neomycin sulfate (B) Sisomicin
(C) Bacitracin (D) Mupirocin
66. Radiosensitive testicular neoplasm is :
- (A) Seminoma (B) Teratoma
(C) None of the above (D) All of the above
67. Among the following surgeries, abdominal approach is used in
- (A) Thiersch operation (B) Delorme's operation
(C) Altemier's procedure (D) Ripstein's operation

68. All the followings are predisposing factors for cancer tongue, except :
- (A) Spicy food (B) Septic tooth
(C) Sjogren syndrome (D) Syphilis
69. Kasai operation is for treatment of :
- (A) Intrahepatic biliary atresia (B) Extrahepatic biliary atresia
(C) Caroli's disease (D) Choledochal cyst
70. The main advantage of Lund and Browder charts over rule of nines is :
- (A) It is easier
(B) More accurate regarding sex of patient
(C) More accurate regarding age of patient
(D) All of the above
71. Rim fracture of distal radius called
- (A) Bennets fracture (B) Bartons fracture
(C) Choffeur's fracture (D) Colle's fracture
72. Egawa test is used to detects injury of
- (A) Median nerve (B) Radial nerve
(C) Axillary nerve (D) Ulnar nerve
73. Axer osteotomy is done
- (A) DDH (B) Proximal femoral deficiency
(C) Perthe's disease (D) SLIP
74. Ring sequestrum is seen in
- (A) Pin tract infection (B) Chronic osteomyelitis
(C) TB osteomyelitis (D) Actinomycosis
75. Saddon's classification is used to clarify
- (A) Muscle Injury (B) Bone Injury
(C) Nerve Injury (D) Tendon Injury
76. According to guidelines for disability assessment to quantify permanent physical impairment, the percentage of wrist disarticulation is
- (A) 50% (B) 60%
(C) 70% (D) 65%

77. Wrist cock up flint is used in
(A) Median N injury (B) Ulnar N injury
(C) Radial N Injury (D) Musculocutaneous N Injury
78. Visual Analogue scale is used in the management of
(A) Pain (B) Gait analysis
(C) Spasticity (D) Aplasia
79. Which of the following cancers can be prevented by vaccine ?
(A) Carcinoma breast (B) Carcinoma cervix
(C) Carcinoma lung (D) Carcinoma colon
80. Which of the following viruses is commonly associated with nasopharyngeal carcinoma ?
(A) Epstein Barr Virus (B) Human Papilloma Virus
(C) Cytomegalo Virus (D) None of the above
81. Unit of radiation absorbed dose is
(A) Joule (B) Roentgen
(C) Becquerel (D) Grey
82. Which of the following monoclonal antibodies is used in the treatment of metastatic colorectal cancer ?
(A) Rituximab (B) Trastuzumab
(C) Bevacizumab (D) Nivolumab
83. The drug of choice for anaesthesia during Electro-Convulsive Therapy (ECT)
(A) Thiopental (B) Methohexital
(C) Propofol (D) Thiamylal
84. Which of these inhalational agents have a blood-gas partition co-efficient similar to Nitrous oxide ?
(A) Isoflurane (B) Sevoflurane
(C) Desflurane (D) Xenon
85. Compression – Ventilation ratio for single recurr in CPR –
(A) 30 : 2 (B) 30 : 1
(C) 15 : 1 (D) 15 : 2

86. Concentration gradient between intracellular and extracellular compartments for Na^+ is
(A) 1 : 20 (B) 1 : 15
(C) 1 : 12 (D) 1 : 10
87. Severe acute malnutrition among children of 6 – 59 months of age is defined by any of the following criteria, EXCEPT :
(A) Presence of bipedal edema
(B) Severe visible wasting
(C) MUAC less than 11.5 cm
(D) Weight for height below -3 Z score on WHO growth chart
88. Treatment with Phenobarbitone may reduce the jaundice in which of the following conditions :
(A) Dubin Johnson syndrome (B) Crigler-Najjar syndrome Type 1
(C) Rotor syndrome (D) Crigler-Najjar syndrome Type 2
89. Blood picture in Enteric fever may show all of the following, EXCEPT :
(A) Leucopenia (B) Lymphocytosis
(C) Thrombocytopenia (D) Eosinopenia
90. Which is not a feature of Dermatomyositis ?
(A) Characteristic Heliotrope discoloration of upper eyelids
(B) Symmetrical distal muscle weakness
(C) Elevated levels of muscle enzymes
(D) Electromyographic evidence of myopathy
91. Least common variety of Trisomy 21
(A) Translocation Trisomy (B) Partial Trisomy
(C) Non-disjunction Trisomy (D) Mosaicism
92. Symptomatic central nervous system involvement occurs in what proportion of children with Mumps ?
(A) 10 – 30% (B) < 5%
(C) < 1% (D) 50%
93. The drug of choice for Trichuriasis in children is
(A) Albendazole (B) Pyrantel pamoate
(C) Mebendazole (D) Ivermectin

94. Carditis occurs in what percentage of children with acute Rheumatic fever ?
- (A) 10% (B) 50-60%
(C) 5% (D) 90%
95. Heliotrope rashes are pathognomonic of
- (A) Rheumatic fever (B) Systemic lupus erythematosus
(C) Juvenile dermatomyositis (D) Sjogrens syndrome
96. Which of the following immune marker is highly specific for Systemic lupus erythematosus ?
- (A) Anti smooth muscle antibody (B) Anti double stranded DNA
(C) Antinuclear antibody (D) Antihistone antibody
97. Patient with infertility shows blocked tubes in Hysterosalpingogram. What is the next step ?
- (A) FSH therapy (B) Clomiphene citrate therapy
(C) Laparoscopy (D) Intra-uterine insemination
98. Which of the following of Human Papilloma virus subtype is causative agent for carcinoma cervix ?
- (A) 6, 11 (B) 16, 18
(C) 55, 57 (D) 25, 26
99. Infertile patient with hirsutism and irregular periods shows elevated LH level than FSH. Which is the most likely diagnosis ?
- (A) Polycystic ovarian syndrome (B) Functioning ovarian tumor
(C) Adrenal tumor (D) Familial hirsutism
100. Which of the following is a risk factor for endometrial carcinoma ?
- (A) Multiparity (B) Herpes simplex virus infection
(C) Diabetes Mellitus (D) Smoking

SPACE FOR ROUGH WORK

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