

048/20

Question Booklet Alpha Code

A

Question Booklet Sl. No.

Total Number of Questions : 100

Time : 75 Minutes

Maximum Marks : 100

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/her 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. A blank sheet of paper is attached to the Question Booklet. This 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.

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1. Which among the following is not a bone of facial skeleton ?
A) Ethmoid B) Lacrimal C) Maxilla D) Vomer
2. Which among the following is not a boundary of Macewan's triangle ?
A) Posterosuperior margin of external acoustic meatus
B) Supramastoid crest
C) Vertical tangent to posterior margin of meatus
D) Vertical tangent to anterior margin of meatus
3. Which among the following is a branch of mandibular nerve ?
A) Auriculotemporal nerve B) Infraorbital nerve
C) Zygomaticofacial nerve D) Zygomaticotemporal nerve
4. Which among the following is not a content of carotid sheath ?
A) Common carotid artery B) Internal jugular vein
C) Sympathetic trunk D) Vagus nerve
5. Which among the following is the derivative of first branchial arch ?
A) Buccinator B) Mylohyoid C) Platysma D) Stapedius
6. Functional residual capacity of lung is calculated as
A) Inspiratory reserve volume + Tidal volume
B) Expiratory reserve volume + Residual volume
C) Expiratory reserve volume + Tidal volume
D) Inspiratory reserve volume + Tidal volume + Expiratory reserve volume
7. Renin is secreted by
A) Macula densa cells B) Juxtaglomerular cells
C) Lacis cells D) Mesangial cells
8. QRS complex in an ECG represents
A) Ventricular depolarization
B) Atrial depolarization
C) Ventricular repolarization
D) Atrial depolarization + AV nodal delay

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9. All are sensations carried by posterior column tracts except
A) Two-point discrimination B) Vibration sense
C) Pain D) Stereognosis
10. Chvostek's sign is seen in
A) Cushing's syndrome B) Addison's disease
C) Hyperthyroidism D) Hypoparathyroidism
11. The most commonly mutated protooncogene in human tumours is
A) RAS protein B) ABL C) MYC D) FOS
12. False statement about secondary healing is
A) More intense inflammation than primary healing
B) Greater volume of granulation tissue than in primary healing
C) Greater mass of scar tissue compared to primary healing
D) Minimal wound contraction
13. Fibrinoid necrosis is usually seen in
A) Infarct brain
B) Tuberculosis
C) Walls of arteries in immune vasculitis
D) Ischemic necrosis of heart
14. The most abundant glycoprotein in basement membrane is
A) Elastin B) Laminin C) Fibronectin D) Integrin
15. Epithelioid cells are
A) Modified epithelial cells B) Modified endothelial cells
C) Activated macrophages D) Transdifferentiated lymphocytes
16. In nonequilibrium type of enzyme inhibition for drug action
A) k_M increase, V_{max} is unchanged
B) k_M is unchanged, V_{max} reduce
C) k_M decrease, V_{max} increase
D) k_M increase, V_{max} reduce

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17. In competitive receptor antagonism
- A) Agonist DRC shifted to right, maximum response is lowered
 - B) Agonist DRC shifted to left, no suppression of maximum response
 - C) Parallel shift of agonist DRC, no suppression of maximum response
 - D) Flattening of agonist DRC, maximum response is lowered
18. The mechanism responsible for development of tolerance to morphine is
- A) Drug disposition
 - B) Enzyme mediated
 - C) Polymorphism
 - D) Cellular
19. Pharmacovigilance includes
- A) Scrutiny of drug trials
 - B) Scrutiny of adherence to good laboratory practices
 - C) Lead optimization
 - D) Post marketing surveillance
20. The combination of sulfamethoxazole with trimethoprim is an example of
- A) Supra additive drug combination
 - B) Additive drug combination
 - C) Propagative drug combination
 - D) Targeted drug combination
21. Which of the following is the rate limiting enzyme in glycolytic pathway ?
- A) Glucose-6-phosphatase
 - B) Pyruvate carboxylase
 - C) Phosphoglucomutase
 - D) Phosphofructokinase
22. Which of the following is not true about competitive inhibition of enzymes ?
- A) The inhibitor is structural analogue of the substrate
 - B) Reversible
 - C) V_{max} is decreased
 - D) K_m is increased
23. The immunoglobulin that mediates primary immune response is
- A) IgA
 - B) IgE
 - C) IgM
 - D) IgG
24. All the following are products formed from tyrosine except
- A) Melanin
 - B) Serotonin
 - C) Epinephrine
 - D) Dopamine

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25. Which of the following lipoprotein transport cholesterol from liver to peripheral tissues ?
A) Chylomicron
B) Very low density lipoprotein
C) Low density lipoprotein
D) High density lipoprotein
26. The mechanism of action of diphtheria toxin is by
A) Increasing adenylate cyclase activity
B) Blocking the production and release of acetylcholine at neuromuscular junction
C) Inactivating elongation factor EF-2
D) Causing lysis of erythrocytes
27. Vincent's angina is caused by
A) Staphylococcus aureus
B) Leptotrichia buccalis
C) Streptococcus viridans
D) Haemophilus influenzae
28. Selective media for the isolation of *Mycobacterium tuberculosis* is
A) Loeffler's serum slope
B) Lowenstein-Jensen medium
C) Thayer Martin medium
D) Wilson-Blair medium
29. The antibody responsible for anaphylactic reactions is
A) IgG
B) IgA
C) IgD
D) IgE
30. Germ tube formation is shown by
A) *Candida kefyr*
B) *Candida tropicalis*
C) *Candida parapsilosis*
D) *Candida albicans*
31. Hypomineralised structures of the enamel rods and inter rods substance is called
A) Enamel tuft
B) Enamel lamellae
C) Striae of Retzius
D) Prismless enamel
32. True about dentin
A) Hardness 1/5th of enamel
B) Hardness less at DEJ
C) Modulus of elasticity 40 GPa
D) Compressive strength 384 MPa
33. Cusps that contact opposing teeth during maximum habitual intercuspation
A) Nonfunctional cusp
B) Stamp cusp
C) Nonholding cusp
D) Both A) and B)

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34. Stratum spinosum contains
- A) Cuboidal cells
 - B) Extremely flattened cells
 - C) Extremely flattened and dehydrated cells
 - D) Tonofibril bundles
35. False about circumvallate papillae
- A) 8 to 12 in number
 - B) Located adjacent and posterior to sulcus terminalis
 - C) Surrounded by sulcular groove
 - D) None of the above
36. Diameter at D16 for No : 20 reamer
- A) 0.20
 - B) 0.32
 - C) 0.52
 - D) 0.62
37. Distance from one cutting edge to the next in endodontic instrument is called
- A) Land
 - B) Pitch
 - C) Flute
 - D) None of the above
38. Risk indicators for caries
- A) White spots
 - B) Visible plaque
 - C) Deep pit and fissures
 - D) Both B) and C)
39. Recommended instrument to detect caries in ICDAS assessment
- A) No 23 explorer
 - B) CPITN probe
 - C) JW17 explorer
 - D) DG16 explorer
40. Axio-pulpal depth of proximal box in Amalgam Class 11 preparation is
- A) 2 – 2.2 mm
 - B) .2 – .8 mm
 - C) .5 – 1 mm
 - D) 1 – 1.5 mm
41. Development of tooth begins at _____ week of intrauterine life.
- A) 6 weeks
 - B) 4 weeks
 - C) 3 weeks
 - D) 2 weeks

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42. The ectomesenchymal cells and fibers that surrounds enamel organ and dental papilla is
A) Alveolar bone
B) Dental follicle
C) Dental sac
D) None of the above
43. 80% of nerve fibers in the pulp tissue are
A) A-delta
B) A-alpha
C) A-beta
D) C-fibers
44. Un-mineralized zone of dentin seen above odontoblastic zone is
A) Intertubular dentin
B) Peritubular dentin
C) Predentin
D) Interglobular dentin
45. In molars with radix paramolaris extra root is seen toward
A) Lingually
B) Mesially
C) Distally
D) Bucally
46. First recognizable zone of enamel caries
A) Body of the lesion
B) Dark zone
C) Translucent zone
D) Surface zone
47. What should not be used to sterilize dental hand piece ?
A) Chemiclave
B) Autoclave
C) Dry heat
D) Ethylene oxide
48. Which is not a feature of exploratory instrument ?
A) Large diameter
B) Small diameter
C) Light weight
D) None
49. Cavo surface margin on occlusal surface in composite is
A) 80 degree
B) 90 degree
C) 120 degree
D) 160 degree
50. ISO Technical Committee (TC) number for dentistry
A) 104
B) 105
C) 106
D) 107

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51. The most common odontogenic cyst is
 A) Radicular cyst
 B) Dentigerous cyst
 C) Odontogenic keratocyst
 D) Gingival cyst
52. "Floating tooth syndrome" appearance is seen in
 A) Fibrous dysplasia
 B) Cherubism
 C) Vanishing bone
 D) Paget's disease
53. Gustatory sweating is
 A) Auriculotemporal syndrome
 B) Fothergill's disease
 C) Crocodile tears
 D) Sphenopalatine neuralgia
54. Widespread carious destruction of deciduous teeth most commonly four maxillary incisors followed by first molars with absence of caries in the mandibular incisors
 A) Chronic caries
 B) Acute caries
 C) Nursing caries
 D) Rampant caries
55. A 'thistle-tube' shaped pulp chamber is found in
 A) Dentinogenesis Imperfect II
 B) Dentin Dysplasia Type II
 C) Dentin Dysplasia Type I
 D) Odontodysplasia
56. Which of the following cysts manifests typically between the roots of maxillary lateral incisor and canine ?
 A) Nasoalveolar cyst
 B) Nasopalatine duct cyst
 C) Globulomaxillary cyst
 D) Median palatal cyst
57. Which of the following bacteriae is more important for producing cellulitis ?
 A) Streptococci
 B) Pneumococci
 C) Staphylococci
 D) Helicobacter pylori
58. Discharging sinuses with sulphur granules are a feature of
 A) Tuberculosis
 B) Actinomycosis
 C) Ludwig's Angina
 D) Pindborg's Tumour

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59. Which of the following lesions does not manifest as a multilocular radiolucency ?
A) Ameloblastoma
B) Odontogenic keratocyst
C) Periapical cyst
D) Adenoameloblastoma
60. Which of the following lesions manifest with intra oral vesicles and prodromal fever and malaise ?
A) Bullous pemphigoid
B) Lichen Planus
C) Psoriasis
D) Herpes Simplex
61. Arch wire used as material of choice for initial alignment in fixed appliance therapy
A) Stainless steel
B) Nitinol
C) Elgiloy
D) Cu Niti
62. What percentage of cleft lip patients have cleft palate as a concurrent abnormality ?
A) 60%
B) 70%
C) 80%
D) 90%
63. Chances of true skeletal changes in maxilla using face mask is best before the age of
A) 8 years
B) 10 years
C) 12 years
D) 14 years
64. Opening of bite with anterior biteplane in the correction of deep bite occurs due to
A) Intrusion of lower anterior teeth
B) Proclination of upper anterior teeth
C) Eruption of posterior teeth
D) All of the above
65. Which of the following cephalometric values express the variations in the vertical height of the face ?
A) FMA
B) IMPA
C) FMIA
D) ANB
66. Early mesial shift of the first permanent molar
A) Compensates for incisal liability
B) Corrects the developing midline diastema
C) Utilizes the anthropoid space
D) Depends on the leeway space

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67. Choking off effect of enamel is seen
- A) After hand over mouth exercise
 - B) After sodium fluoride application
 - C) After a traumatic dental injury
 - D) In a young permanent tooth with a deep dentinal carious lesion
68. Broadbent phenomenon is a
- A) Normal feature in the pre-dentate stage
 - B) Carious lesion in an unerupted tooth
 - C) Presence of multiple supernumerary teeth
 - D) Transient malocclusion
69. The apex of the pedodontic triangle is occupied by the
- A) Pedodontist
 - B) Parent/caretaker
 - C) Child
 - D) Society
70. Which of the following conditions is not associated with self-injury behavior in children ?
- A) Lynch syndrome
 - B) Autism spectrum disorders
 - C) Cornelia de Lange syndrome
 - D) Cerebral palsy
71. Stage one of the Nolla's stages of tooth development denotes
- A) Absence of crypt
 - B) Presence of crypt
 - C) Initial calcification
 - D) Crown completion
72. Which material is not indicated as a root canal obturating material after pulpectomy in a primary tooth ?
- A) Zinc oxide eugenol
 - B) Iodoform paste
 - C) Endoflas
 - D) Mineral trioxide aggregate
73. During a complex tongue thrust swallow, there is no contraction of
- A) Temporal muscle
 - B) Mentalis muscle
 - C) Lips
 - D) Facial muscles

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74. Relative analgesia is a
- A) Conscious sedation technique
 - B) Use of siblings for behaviour management
 - C) Pre-appointment behavior modification technique
 - D) NSAID prescribed in children
75. Gerber appliance is
- A) A functional space maintainer
 - B) A habit breaker appliance
 - C) An active space maintainer
 - D) None of the above
76. In the X-ray tube X-rays are originating from
- A) Anode
 - B) Cathode
 - C) Filament
 - D) Focusing cup.
77. Sialographic appearance of normal gland
- A) Ball in hand appearance
 - B) Sausage like appearance
 - C) Snow storm appearance
 - D) Tree in winter appearance
78. Chloroma is the term given for
- A) Soft tissue swelling in Burkits Lymphoma
 - B) Intraoral tumour associated with Hodgkins Lymphoma
 - C) Greenish tumour like swelling in leukemia
 - D) Benign tumour associated with plasma cell gingivitis
79. A latent image is
- A) An image that is very late in its formation
 - B) A very light radiograph
 - C) Produced after exposing but before developing
 - D) A very dark radiograph
80. Interstitial glossitis is a feature of
- A) Primary syphilis
 - B) Secondary syphilis
 - C) Tertiary syphilis
 - D) Congenital syphilis

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81. Candida Leukoplakia is
- A) Acute Pseudomembraneous Candidiasis
 - B) Acute Atrophic Candidiasis
 - C) Chronic Atrophic Candidiasis
 - D) Chronic Hyperplastic Candidiasis
82. Which among the following is not caused by HPV ?
- A) Molluscum Contagiosum
 - B) Verruca Vulgaris
 - C) Condyloma Accuminatum
 - D) Focal Epithelial Hyperplasia
83. Drug of choice for Trigeminal Neuralgia
- A) Gabapentin
 - B) Lamotrigine
 - C) Carbamazepine
 - D) Baclofen
84. The modern X-ray tube is otherwise known as
- A) Crooks Tube
 - B) Coolidge Tube
 - C) Roentgen's Apparatus
 - D) Thermionic Emission Tube
85. In Periapical Radiographs, Salt and Pepper appearance is seen in
- A) Periodontal abscess
 - B) Sjogrens syndrome
 - C) Thalassemia
 - D) Osteosarcoma
86. True about Sullivan's Index is
- A) Expectation of life free of disability
 - B) Ranges from 0 to 1
 - C) Lost year of healthy life
 - D) Work loss days
87. Oral cancer biopsy is
- A) Primordial level of prevention
 - B) Primary level of prevention
 - C) Secondary level of prevention
 - D) Tertiary level of prevention

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88. Probable or putative risk factors that have been identified in cross-sectional studies but not confirmed through longitudinal studies is
- A) Risk determinant
 - B) Risk indicators
 - C) Risk predictors
 - D) Risk markers
89. All are true about PICOT except
- A) P – Sample of subjects
 - B) I – Intervention
 - C) C – Control
 - D) T – Time
90. Temporary hardness of water is due to
- A) Magnesium bicarbonate
 - B) Calcium sulphate
 - C) Magnesium sulphate
 - D) Calcium nitrates
91. Among the following which incision is not associated with Modified Widman Flap ?
- A) Internal bevel incision
 - B) External bevel incision
 - C) Crevicular incision
 - D) Interdental incision
92. Which is the test used to suggest the presence of Trauma from Occlusion ?
- A) Tension test
 - B) Sounding test
 - C) Fremitus test
 - D) Blanching test
93. Precision for a conventional periodontal probe is
- A) 0.01 mm
 - B) 0.1 mm
 - C) 1 mm
 - D) 0.5 mm
94. Bleeding on probing is a good predictor of
- A) Progressive attachment loss
 - B) Periodontal stability
 - C) Bone loss
 - D) Infrabony pocket formation

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95. A cellular cementum is often confined to
A) Furcation area
B) Cervical portion
C) Middle third of root
D) Apex of the root
96. Carbon fibre posts have a modulus of elasticity similar to that of Dentin which is about
A) 2 GPa
B) 10 GPa
C) 20 GPa
D) 200 GPa
97. Horizontal overlap of anterior teeth is termed
A) Overbite
B) Closed bite
C) Overjet
D) Scissor bite
98. Shortened Dental Arch (SDA) concept is for
A) Arrangement of teeth in short arches
B) Sex, personality and age of patients
C) Ridge augmentation treatment
D) Orthognathic surgery to shorten dental arches
99. Hanau's quint has all of the following except
A) Compensating curves
B) Balanced occlusion
C) Incisal guidance
D) Condylar inclination
100. All ceramic crowns recommended for patients with minimal occlusal clearance is
A) DMLS crown
B) Dicor
C) IPS empress
D) Monolithic crowns
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Space for Rough Work

A