

119/2017

Question Booklet
Alpha Code

A

Question Booklet
Serial Number

Total Number of Questions : 100

Time : 75 Minutes

Maximum Marks : 100

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. 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.

119/2017

1. Which article of Indian constitution deals with 'General Election' ?
(A) Article 321 (B) Article 312 (C) Article 330 (D) Article 331
2. Who is the Hajj affairs minister of Kerala ?
(A) A.C. Moideen (B) K.T. Jaleel (C) T.K. Hamza (D) G. Sudakaran
3. Which is the Headquarters of Calicut University ?
(A) Karyavattom (B) Mannuthi (C) Thrikkakara (D) Tenhippalam
4. Who is the first Keralite Oscar winner ?
(A) Vincent (B) P.J. Antony
(C) Rasool Pukkutty (D) Hariharan
5. Dum Dum Airport of Kolkotta is renamed as _____ .
(A) Jyothibasu Airport (B) Rabindranath Tagore Airport
(C) Subash Chandra Bose Airport (D) Chathrapathi Shivaji Airport
6. 'Upanishads' generally deals with _____ .
(A) Philosophy (B) Vyakarana (C) Way of Life (D) Meditation
7. 'Yasoda' was the _____ of Buddha.
(A) Sister (B) Mother (C) Daughter (D) Wife
8. Which of the following was the centre of Sangam literature ?
(A) Mahodayapuram (B) Madurai
(C) Puhar (D) Kaveripattanam
9. Gandhiji's first involvement in Indian political affairs was in _____ .
(A) Champaran Satyagraha (B) Anti - Rowlatt Act Campaign
(C) Salt Satyagraha (D) Civil Disobedience Movement
10. Salt Satyagraha in Kerala was at _____ .
(A) Payyannur (B) Kozhikode (C) Kodungallur (D) Kochi

11. Who was elected as the President of Central Legislative Assembly in 1925 as a representative of Swarajist party ?
(A) Motilal Nehru (B) Vithal Bai Patel
(C) C.R. Das (D) Vallabai Patel
12. How many persons signed in 'Malayali Memorial' of 1891 ?
(A) 10048 (B) 10038 (C) 10018 (D) 10028
13. The first railway line in Kerala runs between _____ .
(A) Bepore and Tirur (B) Ernakulam and Thrissiveperur
(C) Kayamkulam and Shornnur (D) Kozhikode and Kannur
14. Who among the following is not a member of Cabinet Mission ?
(A) Pathik Lawrence (B) Strafford Cripps
(C) A.V. Alexander (D) Jhon Simon
15. Gandhi - Irwin Pact was in _____ .
(A) 1921 (B) 1931 (C) 1929 (D) 1932
16. Who is the author of 'Neel Darpan' ?
(A) Arabindo Gosh (B) Bal Gangadhar Tilak
(C) Deenbandhu Mitra (D) Gopal Krishna Gokhale
17. Which one of the following was not the aim of Non-Co-operation Movement ?
(A) Attainment of Complete Independence
(B) Attainment of Swaraj
(C) Solution to Punjab problem
(D) Solution to Khilafath Issue
18. Who among the following is not the leader of Khilafath Movement ?
(A) Moulana Mohamedali (B) Moulana Shoukathali
(C) Hakim Ajmal Khan (D) Sir Syed Ahmed Khan
19. Who was the leader of 'Pookottur war' which occurred during Malabar Rebellion of 1921 ?
(A) Ali Musliyar (B) Vadakkeveettil Mohamed
(C) Karadan Moideen (D) Seethikoya Thangal

20. Which one of the following was not the feature of India Act of 1935 ?
(A) All India Federation (B) Provincial Autonomy
(C) Provincial Dyarchy (D) Separate Electorate
21. Sphenomandibular ligament is a remnant of :
(A) 1st Pharyngeal arch (B) 2nd Pharyngeal arch
(C) 3rd Pharyngeal arch (D) 4th Pharyngeal arch
22. Secretomotor innervation of parotid gland is derived from :
(A) Superior Salivatory nucleus (B) Inferior salivatory nucleus
(C) Nucleus tractus solitarius (D) Lacrimary nucleus
23. Which of the following muscles of tongue is NOT supplied by hypoglossal nerve ?
(A) Styloglossus (B) Hyoglossus (C) Genioglossus (D) Palatoglossus
24. All are branches of external carotid artery EXCEPT :
(A) Inferior thyroid artery (B) Lingual artery
(C) Facial artery (D) Occipital artery
25. Which of the following muscles is the depressor of temporomandibular joint ?
(A) Temporalis (B) Masseter
(C) Lateral pterygoid (D) Medial pterygoid
26. Which is the main form of transport of CO₂ in blood ?
(A) Carbamino Hb (B) Dissolved form
(C) Carbonic acid (D) Bicarbonate
27. Hemoglobin is converted to bilirubin in :
(A) Liver (B) Spleen (C) Bone marrow (D) Kidney
28. The main excitatory neurotransmitter in brain is :
(A) Glutamate (B) Glycine (C) GABA (D) Ach
29. Maximum absorption of water takes place in :
(A) Collecting duct (B) Distal convoluted tubule
(C) Proximal convoluted tubule (D) Loop of Henle

30. Oncotic pressure of plasma is due to :
 (A) Albumin (B) Fibrinogen (C) RBC (D) Electrolytes
31. Chromosomal abnormality associated with Chronic myeloid leukaemia is :
 (A) t(8;21) (B) t(9;22) (C) del 5q- (D) t(15;16)
32. _____ is a feature of chronic inflammation.
 (A) Keloid (B) Suppuration
 (C) Granulation tissue (D) Granuloma
33. Following are components of Virchow's triad except :
 (A) emboli (B) hypercoagulability
 (C) altered blood flow (D) endothelial injury
34. Among the following, _____ is a proto oncogene.
 (A) p53 (B) Rb (C) APC (D) cERB B2
35. Which of the following findings is seen in red blood cells in Megaloblastic anemia ?
 (A) Macropolycyte (B) Dohle bodies (C) Cabot rings (D) Dutcher body
36. Which among the following is an Ionotropic Receptor ?
 (A) GABA_A Receptor (B) D₁ Receptor
 (C) Muscarinic Receptor (D) D₂ Receptor
37. Therapeutic Index is expressed as :
 (A) $\frac{LD_{50}}{ED_{50}}$ (B) $LD_{50} \times ED_{50}$ (C) $\frac{ED_{50}}{LD_{50}}$ (D) $\frac{LD_1}{ED_{99}}$
38. Acute development of tolerance after rapid and repeated administration of drugs at short intervals is :
 (A) Tachyphylaxis (B) Idiosyncrasy
 (C) Cross tolerance (D) Metabolic tolerance
39. In which phase of clinical trial pharmacological evaluation of the new drug is performed on healthy volunteers ?
 (A) Phase III (B) Phase II (C) Phase I (D) Phase IV

40. Alcoholic extracts of plant drugs are called :
(A) Elixirs (B) Tinctures (C) Emulsion (D) Linctus
41. Choose the best dietary source of Vitamin C from the following :
(A) Meat (B) Milk (C) Citrus fruits (D) Egg
42. The protein digesting enzyme present in the stomach :
(A) Cathepsin (B) Chymotrypsin (C) Pepsin (D) Trypsin
43. The sugar of milk :
(A) Galactose (B) Lactose (C) Maltose (D) Sucrose
44. Tetany is manifested in :
(A) Respiratory alkalosis (B) Diabetic ketoacidosis
(C) Lactic acidosis (D) Respiratory acidosis
45. One of the following test is not useful to assess kidney function :
(A) Plasma Urea (B) Plasma Creatinine
(C) Plasma Creatine (D) Plasma Cystatin
46. Which of the following bacterial cultures show red fluorescence when exposed to UV light ?
(A) *Bacteriodes fragilis* (B) *Porphyromonas gingivalis*
(C) *Prevotella melanogenica* (D) *Fusobacterium nucleatum*
47. Which is the causative agent of Dental caries ?
(A) *Streptococcus mutans* (B) *Staphylococcus aureus*
(C) *Enterococcus* (D) *Streptococcus agalactiae*
48. Mechanism of Drug resistance in *Mycobacterium tuberculosis* is :
(A) Transformation (B) Conjugation (C) Transduction (D) Mutation
49. Which of the following viral markers is first to appear in blood after infection with Hepatitis B virus ?
(A) HBs Ag (B) HBe Ag
(C) Both of the above (D) None of the above

50. Hard chancre is characteristic of :
- (A) Primary syphilis (B) Secondary syphilis
(C) Tertiary syphilis (D) None of the above
51. Electric pulp tests are known to be unreliable in young permanent teeth, because :
- (A) late development of dentinal tubular fluid dynamics
(B) the relatively late development of A delta fibres
(C) the late development of Tome's fibres
(D) pain threshold is inconsistent in children
52. In SI/STA Classification of dental caries; SI 1 is applied to :
- (A) Pit and Fissure caries (B) Proximal Surface Caries
(C) Root Caries (D) Smooth Surface Caries
53. C-factor of class I cavity is :
- (A) 3 (B) 4 (C) 5 (D) 6
54. What does the term SCAP in an immature, permanent tooth denote ?
- (A) surgical closure of apical foramen
(B) a unique population of dental mesenchymal stem cells
(C) retrograde apical sealing technique
(D) apical barrier apexification procedure
55. The angle the blade makes with the central longitudinal axis of the endodontic file is called :
- (A) Cutting Angle (B) Rake Angle
(C) Clearance Angle (D) Helix Angle
56. The extent of facial and lingual cervical contours for maxillary teeth from the CEJ is approximately :
- (A) 0.5 mm (B) 1.0 mm (C) 1.5 mm (D) 2.0 mm
57. Who first introduced the term "Dead tracts" in dentin ?
- (A) Anders Retzius (B) Von Ebner (C) Wilfred Fish (D) K. Kawasaki

58. How many teeth are seen in the Orthopantomogram (OPG) of a 6 months old child ?
 (A) 28 (B) 30 (C) 32 (D) 34
59. RANK-RANKL-OPG signaling pathway is important in regulating the differentiation and activation of which cells ?
 (A) Osteoblasts (B) Osteoclasts (C) T-Lymphocytes (D) B-Lymphocytes
60. Which non-keratinocyte has desmosomal attachment with adjacent cells ?
 (A) Merkel cells (B) Mast cells (C) Melanocytes (D) Langerhans cells
61. Postzygotic mutation of GNAS1 gene in a somatic cell leads to the formation of :
 (A) Pagets Disease (B) Osteogenesis Imperfecta
 (C) Fibrous Dysplasia (D) Ectodermal Dysplasia
62. The gene for the production of Plasma thromboplastin antecedent (Factor XI) is located on :
 (A) Chromosome X (B) Chromosome Y
 (C) Chromosome 6 (D) Chromosome 4
63. Congenital unilateral ptosis, with rapid elevation of the ptotic eyelid occurring on movement of the mandible to the contralateral side is called :
 (A) Marcus Gunn Syndrome (B) Marin Amat Syndrome
 (C) Horner's Syndrome (D) Gorham's Syndrome
64. In OLEP Staging system for Oral leukoplakia, which one of the following lesion is included in Stage III ?
 (A) L1P0 (B) L1P1 (C) L2P0 (D) L3P1
65. Which is the most common salivary neoplasm arising from an odontogenic cyst ?
 (A) Acinic Cell Carcinoma (B) Adeno Carcinoma
 (C) Mucoepidemoid Carcinoma (D) Adenoid Cystic Carcinoma
66. Open bites, associated with craniofacial syndromes is a deviation from normal in :
 (A) Vertical plane (B) Horizontal plane
 (C) Transverse plane (D) Occlusal plane

67. Highest form of clinical evidence in hierarchy of quality that exists to guide clinical decision is :
- (A) Randomized control trials (B) Retrospective study
(C) Meta analysis (D) Prospective study
68. Among the following which tooth calcification is commonly associated with assessment of skeletal maturity ?
- (A) Maxillary central incisor (B) Mandibular canine
(C) Maxillary first molar (D) Mandibular first molar
69. The personality considered as forerunner of rapid maxillary expander is :
- (A) Norman Kingsley (B) Vigo Andresen
(C) Hyrax (D) Emerson C Angell
70. Which among the following techniques **cannot** enhance the rate of tooth movement ?
- (A) Application of vibration to tooth
(B) Application of heat to teeth and alveolar bone
(C) Application of light to alveolar process
(D) Application of ultrasound to teeth and surroundings
71. Genetic theory of Growth was put forward by :
- (A) Brodie in 1941 (B) Pertovic in 1974
(C) Moss in 1962 (D) Sicher in 1955
72. In cephalometrics, pterygoid vertical plane (PTV) is :
- (A) Line through Nasion (N) perpendicular to PH plane
(B) Line perpendicular to FH plane through Pt point
(C) Tangent to inferior border of Mandible through Pt point
(D) Line parallel to Pterygoid process
73. Which is not a mixed Dentition Analysis ?
- (A) Huckaba's Analysis (B) Ashley Hower's Analysis
(C) Hixon and Old father Method (D) Tanaka and Johnston Analysis

74. Kinectic Cavity Preparation :
- (A) is Painless
 - (B) there is no vibration or pressure to cause microfracture that weakens tooth
 - (C) local anesthesia is always needed
 - (D) works quietly
75. Which is not a complication associated with stainless steel crown ?
- (A) Crown tilt
 - (B) Inhalation or Ingestion
 - (C) Interproximal ledge
 - (D) Premature contacts well tolerated by child
76. Collimators are made up of :
- (A) Tungsten
 - (B) Molybdenum
 - (C) Copper
 - (D) Lead
77. Cystic, keratin filled nodules seen along the mid palatine raphae :
- (A) Bohn's nodules
 - (B) Lateral periodontal cyst
 - (C) Epstein pearls
 - (D) Calcifying Odontogenic Cyst
78. Herpangina is caused by :
- (A) Coxsackie virus
 - (B) Cytomegalovirus
 - (C) Herpes virus
 - (D) None
79. Restrainer in developing solution :
- (A) Potassium bromide
 - (B) Sodium sulfite
 - (C) Sodium hydroxide
 - (D) Potassium hydroxide
80. Dimension of occlusal film :
- (A) 50 mm × 75 mm
 - (B) 57 mm × 76 mm
 - (C) 55 mm × 75 mm
 - (D) 50 mm × 76 mm
81. Which among the following study designs is best suited for estimation of relative risk ?
- (A) Cross sectional study
 - (B) Cohort study
 - (C) Case control study
 - (D) Randomized control trial

82. Each study subject also serves as a control in :
- (A) Concurrent parallel trial (B) Cohort study
(C) Quasi experimental study (D) Cross over trial
83. Which of the following is the most cost effective technique for prevention of caries ?
- (A) Community water fluoridation
(B) Use of fluoride dentifrice
(C) Professional application of fluoride varnish
(D) Knutson's technique
84. Identify the third generation chemical plaque control agent from the following :
- (A) Sangunarine (B) Phenols (C) Chlorhexidine (D) Delmopinol
85. Incidence can be obtained from :
- (A) Cross sectional study (B) Case Control study
(C) Longitudinal study (D) Ecological study
86. The predominance of plasma cells is thought to be a primary characteristic of :
- (A) Advanced lesion (B) Early lesion
(C) Established lesion (D) Initial lesion
87. The cytokeratins which are expressed in the junctional epithelium are :
- (A) K4 and K13 (B) K5 and K14 (C) K6 and K16 (D) K1 and K2
88. The technique that surgically removes the pocket wall is :
- (A) Undisplaced flap (B) Modified Widman flap
(C) Papilla preservation flap (D) Conventional flap
89. Which of the following electronic probe is capable of locating the cemento enamel junction ?
- (A) Interprobe (B) Foster Miller probe
(C) Periprobe (D) Florida probe
90. Which of the following is a sulcular brushing technique ?
- (A) Modified Stillman technique (B) Fones technique
(C) Charters technique (D) Bass technique

91. Amount of Lignocaine present in 2cc of 2% LA solution is :
 (A) 40 mg (B) 20 mg (C) 400 mg (D) 0.4 mg
92. The pathognomonic sign of fracture mandible is :
 (A) Deranged occlusion (B) Displacement
 (C) Open Bite (D) Sublingual Hematoma
93. The direction of first force applied in extracting upper anterior tooth is :
 (A) Rotational (B) Buccal (C) Apical (D) Palatal
94. Sodium metabisulphite is added to local anaesthetic solution as :
 (A) Vasoconstrictor
 (B) Principal active ingredient
 (C) Anti oxidant to protect vasoconstrictor
 (D) Antifungal Agent
95. Which of the following is the drug of choice in Anaphylactic shock ?
 (A) Sodium Nitroprusside (B) Adrenalin
 (C) Phenergan (D) Deriphylline
96. Gypsum is :
 (A) $\text{CaSO}_4 \cdot 2\text{H}_2\text{O}$ (B) $(\text{CaSO}_4)_2 \cdot \text{H}_2\text{O}$ (C) H_2SO_4 (D) CaSO_4
97. Freeway space =
 (A) occlusal vertical dimension + rest vertical dimension
 (B) occlusal vertical dimension – rest vertical dimension
 (C) rest vertical dimension – occlusal vertical dimension
 (D) rest vertical dimension
98. In RPD, border of maxillary major connector should be at least _____ away from the gingival crevice of teeth.
 (A) 5 mm (B) 6 mm (C) 6 cm (D) 5 cm

99. In tooth preparation for fixed partial dentures and crowns, bevel should be prepared in :
- (A) non functional cusp
 - (B) functional cusp
 - (C) in both cusps
 - (D) none
100. Type of minor connector in removable partial denture that is **not** required to be rigid :
- (A) connects denture base to major connector
 - (B) join clasp assembly to major connector
 - (C) join indirect retainer to major connector
 - (D) approach arm for Bar type clasp

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