

238/2015

Maximum : 100 marks

Time : 1 hour and 15 minutes

1. The number of articles in Indian constitution :  
(A) 395 (B) 375  
(C) 385 (D) 295
2. The right to property was taken away from among the Fundamental Rights by the :  
(A) 42<sup>nd</sup> constitutional amendment (B) 44<sup>th</sup> constitutional amendment  
(C) 46<sup>th</sup> constitutional amendment (D) 47<sup>th</sup> constitutional amendment
3. The Right to Information Act was passed in the year :  
(A) 2000 (B) 2002  
(C) 2004 (D) 2005
4. The Chairman of Western Ghats Ecology Expert Panel was :  
(A) Kasthurirangan (B) Madhav Gadgil  
(C) Dr. D. K. Subramanian (D) Dr. V. S. Vijayan
5. The women leader whom Gandhiji hailed as 'The Jhansi Rani of Travancore' :  
(A) Rosamma Punnuse (B) Anna Chandi  
(C) Akkamma Cheriyan (D) Lalitha prabhu
6. 'Yuktivati' was published under the editorship of :  
(A) K. Ayyappan (B) E. Moidu Moulavi  
(C) C. Krishnan (D) K.P. Kesava Menon
7. The credit for having laid the foundation of Western Education in Malabar area goes to :  
(A) Church Mission Society (B) London Mission Society  
(C) Basel Evangelical Mission (D) Salvation Army
8. 'Suchindram Kaimukku' the traditional ordial of boiling ghee was abolished by :  
(A) Uthradam Thirunal (B) Ayilyam Thirunal  
(C) Swathi Thirunal (D) Gauri Lakshmi Bai



9. Who initiated the method 'Misrabhojanam' to fight against caste system in Kerala?  
(A) Ayyankali (B) K. Ayyappan  
(C) Pandit Karuppan (D) Vagbhadananda
10. The 'Islam Dharma Paripalana Sangham' was founded by :  
(A) Makti Thangal (B) Muhammed Abdurahiman  
(C) E. Moidu Moulavi (D) Vakkom Abdul Khader Moulavi
11. The first characteristic Malayalam novel is :  
(A) Chemmeen (B) Indulekha  
(C) Kundalatha (D) Dharmaraja
12. 'AMRUT', the programme introduced by the Government of India in June 2015 is intended to :  
(A) Child care (B) Rural Development  
(C) Mother care (D) Urban Development
13. Who was the first Chair Person of the Kerala State Women's Commission?  
(A) Sugatha Kumari (B) Justice D. Sreedevi  
(C) M. Kamalam (D) K. C. Rosakutty
14. In normal case the period allowed to furnish information by the Principal Information Officer under the Right to Information Act is :  
(A) 15 days (B) 45 days  
(C) 7 days (D) 30 days
15. The writer who won the first 'Jnanpith Award' was :  
(A) G. Sankara Kurup (B) P. V. Akilan  
(C) Shivaram Karanth (D) S. K. pottakkad
16. The theme of the historical novel 'Keralasimham' is the struggle against the British power led by :  
(A) Marthanda Varma (B) Velu Thambi  
(C) Kunjali Marakkar (D) Pazhassi Raja
17. Who won the 'Ezhuthachan Prize' for the year 2014?  
(A) Vishnu Narayanan Namboothiri (B) M. K. Sanu  
(C) Attoor Ravivarma (D) M.T. Vasudevan Nair



18. Sanju V. Samson made his international debut for India against :  
(A) Bangladesh (B) Australia  
(C) Zimbabwe (D) Sri Lanka
19. Dr. A.P.J. Abdul Kalam delivered his last lecture in the Indian Institute of Management at :  
(A) Calcutta (B) Shillong  
(C) Kashipur (D) Indore
20. The commission to probe the 'Solar Scam' is headed by :  
(A) Justice Sukumaran (B) Justice Thomas P. Joseph  
(C) Justice Sivarajan (D) Justice C.N. Ramachandran
21. The only cranial nerve that emerges through dorsal aspect of brain stem is :  
(A) abducent (B) facial  
(C) oculomotor (D) trochlear
22. True regarding otic ganglion is :  
(A) preganglionic fibres arise from superior salivatory nucleus  
(B) nerve fibres pass through tympanic branch of glossopharyngeal nerve  
(C) nerve fibres traverse greater petrosal nerve  
(D) post ganglionic fibres pass through facial nerve
23. Submandibular duct is in intimate relation to the following nerve :  
(A) Facial (B) Hypoglossal  
(C) Lingual (D) Inferior alveolar
24. Floor of carotid triangle is formed by all muscles EXCEPT :  
(A) Hyoglossus (B) Inferior constrictor  
(C) Thyrohyoid (D) Superior constrictor
25. Carotid tubercle is prominent in following vertebra :  
(A) C 2 (B) C 6  
(C) C 7 (D) T 1
26. Motor area in cerebrum is mainly associated with :  
(A) Controlling all motor activity (B) Executing fine movements  
(C) Performing an involuntary movements (D) Performing all voluntary movements



27. Colour vision is by :
- (A) Bipolar cells (B) Cones  
(C) Occipital cortex (D) Rods
28. Stimulation of Baroreceptor leads of :
- (A) Decrease in Heart rate and Blood pressure  
(B) Increase in Heart rate and Blood pressure  
(C) Decrease in Intracranial tension  
(D) Increase in Intracranial tension
29. Cerebrospinal fluid is principally secreted by :
- (A) Arachnoid granulation (B) Choroid plexus  
(C) Floor of Fourth ventricle (D) Periaqueductal grey
30. In Athlets bradycardia is because of :
- (A) Cardiac output (B) Decreased sympathetic tone  
(C) Increased Vagal tone (D) Low Venous return
31. Which of the following is an intranuclear inclusion?
- (A) Warthin Finkelday (B) Donovan body  
(C) Negri body (D) Cowdry inclusion
32. Durck granuloma is seen in \_\_\_\_\_ infection.
- (A) Falciparum malaria (B) Anthrax  
(C) Cutaneous Leishmaniasis (D) Mycobacterium avium intracellulare
33. p53 acts as a tumor suppressor by following mechanisms EXCEPT :
- (A) quiescence (B) senescence  
(C) down regulation of catenin (D) induction of apoptosis
34. The following statements are true about Superantigens EXCEPT :
- (A) they are bacterial proteins  
(B) antigens on surface of Bombay group RBCs  
(C) cause polyclonal Tcell activation  
(D) cause syndrome similar to septic shock

35. Gum hypertrophy is seen in :  
(A) AML M3 (B) ALL L2  
(C) AML M5 (D) CML
36. Zero order kinetics of elimination applies to which drug :  
(A) Ampicillin (B) Ethyl Alcohol  
(C) Paracetamol (D) Verapamil
37. The preferred drug for the treatment of organophosphorous poisoning is :  
(A) Adrenaline (B) Atropine  
(C) Neostigmine (D) Vecuronium
38. Which among the following is a sympathomimetic bronchodilator?  
(A) Budesonide (B) Ipratropium  
(C) Montelukast (D) Salbutamol
39. The Drug of choice for the treatment of status Epilepticus is :  
(A) Carbamazepine (B) Lorazepam  
(C) Phenobarbitone (D) Sodium Valproate
40. The preferred drug for the treatment of multidrug-resistant typhoid fever is :  
(A) Ampicillin (B) Cephalexin  
(C) Ceftriaxone (D) Cotrimoxazole
41. All of the following are true regarding Vitamin A activity EXCEPT :  
(A) 1 RAE = 1  $\mu$ g all-trans-retinal (B) 1 RAE = 12  $\mu$ g beta-carotene  
(C) 1 iu = 3.6  $\mu$ g beta - carotene (D) 1 iu = 36  $\mu$ g all-trans-retinal
42. Good cholesterol is :  
(A) LDL (B) VLDL  
(C) Chylomicron (D) HDL
43. GLUT2 transporter is seen in all the following tissues EXCEPT :  
(A) Liver (B) Brain  
(C) Pancreatic beta cell (D) Small intestine



44. Which of the following is false regarding HbS?
- (A) Glutamic acid in beta chain is replaced by valine
  - (B) GAG in 6<sup>th</sup> codon is replaced by GUG
  - (C) RBCs are always abnormally shaped
  - (D) Sickled RBCs can cause splenic infarction
45. Transamination is the first catabolic step of which amino acid given below :
- (A) Arginine
  - (B) Proline
  - (C) Threonine
  - (D) Lysine
46. Contributions of Louis Pasteur include all EXCEPT :
- (A) Hot air oven
  - (B) Autoclave
  - (C) Live attenuated anthrax vaccine
  - (D) Discovery of Mycobacterium tuberculosis
47. Component of Bacterial cell responsible for endotoxic shock is :
- (A) Lipopolysaccharide
  - (B) Peptidoglycan
  - (C) Cytoplasmic membrane
  - (D) Porins
48. The mechanism of gene transfer associated with Penicillin resistance in Staphylococci is :
- (A) Transformation
  - (B) Conjugation
  - (C) Transduction
  - (D) Lysogenic conversion
49. Example of Zoonotic disease is all EXCEPT :
- (A) Taeniasis
  - (B) Brucellosis
  - (C) Hydatid disease
  - (D) Leptospirosis
50. During window period in HIV infection :
- (A) Viral RNA cannot be detected in the serum
  - (B) HIV antibody tests are negative
  - (C) Viral components cannot be detected in this phase
  - (D) Infection cannot be transmitted in this period



51. The lines that are seen clearly in longitudinal ground sections of enamel viewed by reflected light are :
- (A) Gnarled enamel (B) Straie of Retzius  
(C) Hunter Schreger bands (D) Perikymata
52. The organic phase in dentin is primarily composed of :
- (A) Type I collagen (B) Type V collagen  
(C) Type III collagen (D) Type XI collagen
53. The first sign of dentin formation is the appearance of :
- (A) Lines of Von Ebner (B) Tomes process  
(C) Von Korff 's fibres (D) Contour lines of Owen
54. The principal cell in the lamina propria of gingiva is the :
- (A) Endothelial cell (B) Mucous cell  
(C) Histiocyte (D) Fibroblast
55. The earliest histologic indication of tooth development is at :
- (A) 6<sup>th</sup> week of embryogenesis (B) 2<sup>nd</sup> week embryogenesis  
(C) 4<sup>th</sup> week of embryogenesis (D) 3<sup>rd</sup> week of embryogenesis
56. The accurate radiograph for the diagnosis of approximal caries lesions when a contact point is present is :
- (A) Occlusal (B) RVG  
(C) Bitewing (D) Intra oral periapical
57. A restoration material that will set in the dark is :
- (A) Compomer (B) Resin modified GIC  
(C) Nanofilled composite (D) Pit and fissure sealants
58. IPS Empress 2 is an example of :
- (A) Injection moulded ceramic (B) CAD/CAM ceramic  
(C) Sintered ceramic (D) Glass infiltrated ceramic



59. In the hand instrument formula the first number indicates :
- (A) The length of the primary cutting edge in tenths of a millimeter
  - (B) The width of the primary cutting edge in hundreds of a millimeter
  - (C) The width of the primary cutting edge in tenths of a millimeter
  - (D) The length of the primary cutting edge in hundreds of a millimeter
60. Ditch cut is usually employed in :
- (A) Lamination techniques
  - (B) Calla lily preparations for composites
  - (C) Primary flare for indirect cast restorations
  - (D) Proximal preparations for amalgams
61. Which is the most common odontogenic cyst reported?
- (A) Dentigerous cyst
  - (B) Odontogenic keratocyst
  - (C) Periapical cyst
  - (D) Gingival cyst
62. Tulip shaped crown is a feature of which of the following condition?
- (A) Turner's hypoplasia
  - (B) Taurodontism
  - (C) Dentinogenesis imperfecta
  - (D) Dentin Dysplasia
63. Which of the following is the commonest intra oral site for mucoepidermoid carcinoma?
- (A) Buccal mucosa
  - (B) Floor of mouth
  - (C) Palate
  - (D) Labial mucosa
64. Burnished dentine is :
- (A) Initial dentinal caries
  - (B) Arrested dentinal caries
  - (C) Advanced dentinal caries
  - (D) Necrotic dentine
65. Driven snow appearance in radiograph is seen in :
- (A) Pindborg's tumour
  - (B) Ameloblastoma
  - (C) Cementoma
  - (D) Adenoameloblastoma
66. Number of bones present in an infant skull :
- (A) 44
  - (B) 45
  - (C) 46
  - (D) 40
67. Optimum orthodontic force in gm/cm<sup>2</sup> is :
- (A) 20-26
  - (B) 30-35
  - (C) 50-56
  - (D) 50-100



68. Which among the following is not an example of second messenger involved in tooth movement?
- (A) Cyclic AMP (B) Inositol Phosphate  
(C) Cyclic GMP (D) Prostaglandins
69. Deckbiss malocclusion is seen in :
- (A) Class I bimaxillary protrusion (B) Class II Div. 1  
(C) Class II Div. 2 (D) Class III malocclusion
70. Reverse Orthodontics is a term used in :
- (A) Interceptive orthodontics (B) Preventive Orthodontics  
(C) Camouflage treatment (D) Surgical orthodontics
71. Class VI of Ellis and Davey classification of tooth fracture is :
- (A) Avulsion  
(B) Fracture of root with or without loss of crown structure  
(C) Displacement of tooth  
(D) Non vital tooth
72. External root resorption due to infected pulp is :
- (A) Inflammatory resorption (B) Surface resorption  
(C) Replacement resorption (D) Osseous resorption
73. Objective test of assessing pulp vitality is:
- (A) Cold test (B) Electric pulp test  
(C) Pulse oximetry test (D) Test cavity test
74. Preservation pulpotomy is:
- (A) MTA pulpotomy (B) Calcium hydroxide pulpotomy  
(C) Formocresol pulpotomy (D) Ferric sulfate pulpotomy
75. Fixed space maintainer used where deciduous second molar is prematurely extracted prior to eruption of permanent first molar is :
- (A) Band and loop (B) Distal shoe  
(C) Lingual arch (D) Trans palatal arch



76. Multiple fibromas of face can be seen in :
- |                           |                        |
|---------------------------|------------------------|
| (A) Gorlin Goltz Syndrome | (B) Cowden's Syndrome  |
| (C) Albright Syndrome     | (D) Gardner's Syndrome |
77. Reddish to purple discolouration of skin or mucous membrane of size 0.4 – 0.9 cm caused by blood from vessels leaking into the connective tissue is called :
- |               |                 |
|---------------|-----------------|
| (A) Petechiae | (B) Ecchymoses  |
| (C) Purpura   | (D) Haemangioma |
78. Hardner used in a Fixer solution is :
- |                       |                    |
|-----------------------|--------------------|
| (A) Ammonium Sulfate  | (B) Benzotriazole  |
| (C) Aluminium Sulfate | (D) Sodium Sulfate |
79. The ability of a radiograph to define an edge precisely is called :
- |                      |                     |
|----------------------|---------------------|
| (A) Film Sensitivity | (B) Film Sharpness  |
| (C) Film Contrast    | (D) Film Resolution |
80. SI Unit of Radiation Exposure is :
- |                      |               |
|----------------------|---------------|
| (A) Coulomb/kilogram | (B) Becquerel |
| (C) Roentgen         | (D) Sievert   |
81. Which is a Non-operating Dental Auxiliary?
- |   |
|---|
| (A) Dental Laboratory Technician              |
| (B) Dental Therapist                          |
| (C) Dental Hygienist                          |
| (D) Expanded Function Dental Auxiliary (EFDA) |
82. Which is not a property of normal curve?
- |  |
|--|
| (A) Bell shape                                 |
| (B) Mean is Zero and standard deviation is one |
| (C) Mean, Median, Mode Coincide                |
| (D) Mean is one and standard deviation is zero |
83. Example of an irreversible index:
- |                                    |                       |
|------------------------------------|-----------------------|
| (A) Loe and Silness Gingival index | (B) DMFT index        |
| (C) Oral hygiene index             | (D) None of the above |



84. Safety tolerated dose of fluoride :
- (A) 4-8 mg of fluoride/kg body weight      (B) 8-16 mg of fluoride/kg body weight  
(C) 16-32 mg of fluoride/kg body weight      (D) 32-64 mg of fluoride/kg body weight
85. Which is not true for Cohort study as compared to case control Study?
- (A) Expensive      (B) Proceeds from cause to effect  
(C) Unsuitable for study of rare disease      (D) Yields results quickly
86. The lymph nodes that are involved in acute necrotising ulcerative periodontitis are confined to :
- (A) Submandibular lymph nodes  
(B) Sublingual lymph nodes  
(C) Submandibular and Sublingual lymph nodes  
(D) Submandibular and Cervical Lymph nodes
87. The material present between the bacteria in dental plaque called intermicrobial matrix accounts for around :
- (A) 25% of plaque volume      (B) 35% of plaque volume  
(C) 50% of plaque volume      (D) 75% of plaque volume
88. The enzyme Arg1 protease in biofilm is produced by :
- (A) Porphyromonas gingivalis      (B) Actinomyces viscosus  
(C) Capnocytophaga      (D) Treponema pallidum
89. The desquamative lesion having an ocular manifestation :
- (A) Pemphigus vulgaris  
(B) Benign Mucous membrane pemphigoid  
(C) Erosive lichen Planus  
(D) Erythema multiforme
90. The most ideal surgical treatment for single tooth gingival recession is :
- (A) Coronally displaced flap      (B) Sub epithelial connective tissue graft  
(C) Laterally displaced flap      (D) Free gingival graft
91. Which is the naturally occurring catecholamines?
- (A) Isoproterenol      (B) Ephedrine  
(C) Dopamine      (D) Levonordefrin



92. One of the following nerve is not anaesthetised in Gowgate technique of nerve block :
- |                                |                     |
|--------------------------------|---------------------|
| (A) Auriculotemporal           | (B) Lingual Nerve   |
| (C) Nerve to lateral pterygoid | (D) Mylohyoid nerve |
93. Andygump deformity commonly occur following :
- |                               |                                 |
|-------------------------------|---------------------------------|
| (A) Total maxillectomy        | (B) Alveolar ridge augmentation |
| (C) Gunshot injury of midface | (D) Total mandibular resection  |
94. Following is not a clinical feature of superior orbital syndrome :
- |                       |                          |
|-----------------------|--------------------------|
| (A) Ophthalmoplegia   | (B) Forehead anaesthesia |
| (C) Constricted pupil | (D) Proptosis            |
95. Which of the following is not associated with temporomandibular joint pathology?
- |               |                         |
|---------------|-------------------------|
| (A) Diastema  | (B) Open bite           |
| (C) Deep bite | (D) Traumatic occlusion |
96. Which of the following materials is commonly used for making Laminate veneers?
- |                      |                               |
|----------------------|-------------------------------|
| (A) Metal ceramic    | (B) Injection moulded ceramic |
| (C) Zirconia ceramic | (D) In Ceram                  |
97. A desirable property of metal ceramic alloys is :
- |                    |                            |
|--------------------|----------------------------|
| (A) Low elasticity | (B) High thermal expansion |
| (C) Sag resistance | (D) High flexibility       |
98. Shaped block out is used for :
- |   |
|---|
| (A) Removal of undercut in the proximal side      |
| (B) Removal of undercut in the buccal side        |
| (C) Removal of undercut in the interproximal area |
| (D) Placement of retentive clasps                 |
99. Minor connector for a mandibular distal extension RPD should extend posteriorly to the :
- |  |  |
|--|--|
| (A) Retromolar pad                         | (B) 1/2 the length of the edentulous ridge |
| (C) 2/3 the length of the edentulous ridge | (D) Length is not a problem                |
100. Which of the following is an occlusal scheme not seen in natural dentition?
- |                              |                                  |
|------------------------------|----------------------------------|
| (A) Balanced occlusion       | (B) Canine guided Occlusion      |
| (C) Group function Occlusion | (D) Mutually protected occlusion |