

NOTE : DO NOT BREAK THE SEAL UNTIL YOU GO THROUGH THE FOLLOWING INSTRUCTIONS

MDS Entrance Test – 2011
QUESTION BOOKLET
Paper — I

Roll No.

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(Enter your Roll Number in the above space)

Series

Booklet No.

C

710099

Time Allowed : 2½ Hours

Max. Marks : 200

INSTRUCTIONS :

1. Use only BLACK or BLUE Ball Pen.
2. All questions are COMPULSORY.
3. Check the BOOKLET thoroughly.

IN CASE OF ANY DEFECT - MISPRINTS, MISSING QUESTION/S OR DUPLICATION OF QUESTION/S, GET THE BOOKLET CHANGED WITH THE BOOKLET OF THE SAME SERIES. NO COMPLAINT SHALL BE ENTERTAINED AFTER THE ENTRANCE TEST.

4. Before you mark the answer, fill in the particulars in the ANSWER SHEET carefully and correctly. Incomplete and incorrect particulars may result in the non-evaluation of your answer sheet by the technology.
5. Write the SERIES and BOOKLET No. given at the TOP RIGHT HAND SIDE of the question booklet in the space provided in the answer sheet by darkening the corresponding circles.
6. Do not use any eraser, fluid pens, blades etc., otherwise your answer sheet is likely to be rejected whenever detected.
7. After completing the test, handover the ORIGINAL COPY of ANSWER SHEET to the Invigilator and keep the CANDIDATE'S COPY of ANSWER SHEET with you.

SEAL

00017

1. Silver plated dies use an electrolytic bath of
 - (1) Silver fluoride
 - (2) Silver cyanide
 - (3) Silver bromide
 - (4) Silver iodide

2. Which of the following combination is CORRECT for the commonly used disinfectant – Savlon?
 - (1) Chlorhexidine + Hydrogen peroxide
 - (2) Chlorhexidine + Hypochlorite
 - (3) Chlorhexidine + Cetrimide
 - (4) Chlorhexidine + Chloramine

3. Which of the following is the first serological marker to appear in blood in cases of Hepatitis B infection?
 - (1) HBs antigen
 - (2) HBc antigen
 - (3) HBe antigen
 - (4) Anti-HBc antibody

4. Which of the following genera is NOT a usual normal microflora of the oral cavity?
 - (1) Actinomyces
 - (2) Propionibacterium
 - (3) Corynebacterium
 - (4) Leptothrix

5. Which of the following bacteria causes Vincent's angina in association with *Borrelia vincenti*?
 - (1) *Bacteroides fragilis*
 - (2) *Leptotrichia buccalis*
 - (3) *Prevotella denticola*
 - (4) *Lactobacillus catenaforme*

6. Which of the following *Streptococcus* species has the most significant association with dental caries?
 - (1) *S mutans*
 - (2) *S mitis*
 - (3) *S salivarius*
 - (4) *S sanguis*

7. Which one of the following is a site for metastatic calcification?
 - (1) Kidney
 - (2) Atheroma
 - (3) Old tuberculous lesion
 - (4) Fat necrosis

8. Oesophageal stage of swallowing is mediated through
- (1) Vagal afferents and glossopharyngeal and vagal efferents
 - (2) Glossopharyngeal afferents and only vagal efferents
 - (3) Afferents and efferents through Spinal accessory and Vagus nerves
 - (4) Afferents and efferents through Hypoglossal and glossopharyngeal nerves
9. About 65% of filtered electrolytes are reabsorbed in
- (1) Distal convoluted tubule
 - (2) Loop of henle
 - (3) Proximal convoluted tubule
 - (4) Collecting duct
10. Temperature regulating center is located in
- (1) Thalamus
 - (2) Medulla
 - (3) Pons
 - (4) Hypothalamus
11. Which of the following statements is correct?
- (1) Cholecalciferol is converted to 25-hydroxy cholecalciferol in Liver
 - (2) Cholecalciferol is converted to 25-hydroxy cholecalciferol in Kidney
 - (3) Cholecalciferol is converted to 25-hydroxy cholecalciferol in Skin
 - (4) Cholecalciferol is converted to 25-hydroxy cholecalciferol in Plasma
12. Coronary circulation is chiefly under the control of
- (1) Sympathetics
 - (2) Parasympathetics
 - (3) Local metabolic factors
 - (4) Somatic nervous control
13. 'When oxygen binds with hemoglobin, carbon dioxide is released' this effect is called as
- (1) Wind kessel effect
 - (2) Bohr effect
 - (3) Bain Bridge effect
 - (4) Haldane effect

14. The most common site for an ameloblastoma apart from the jaw is
 (1) Mediastinum (2) Teratoma
 (3) Pituitary gland (4) Sacrococcygeal region
15. The most common site for lesions of secondary tuberculosis in the oral cavity is
 (1) Palate (2) lips
 (3) Gingiva (4) Tongue
16. Necrotic ulcerations of lues maligna are a manifestation of which type of syphilis?
 (1) Primary (2) Secondary
 (3) Tertiary (4) Congenital
17. Epstein Barr virus is the etiological agent in which of the following HIV associated oral lesions?
 (1) Kaposi's sarcoma (2) Oral hairy leukoplakia
 (3) Oral squamous cell carcinoma (4) Molluscum contagiosum
18. Which of the following dermatoses does not present with desquamative gingivitis?
 (1) Cicatricial pemphigoid (2) Hailey – Hailey disease
 (3) Pemphigus (4) Lichen planus
19. Dental pulp resembles
 (1) Loose connective tissue (2) Granular tissue
 (3) Vascular tissue (4) Nervous tissue
20. The direction of enamel rods in deciduous teeth is
 (1) Same as permanent teeth
 (2) Inclined in an apical direction in cervical third of crown
 (3) Inclined in an occlusal direction in cervical third of crown
 (4) None of the above
21. Which of the premolars is usually the smallest?
 (1) Maxillary first (2) Maxillary second
 (3) Mandibular first (4) Mandibular second

22. Which of the following is a late manifestation of acute rheumatic fever?

- (1) Subcutaneous nodule
- (2) Carditis
- (3) Chorea
- (4) Erythema marginatum

23. As per Delaire, in cleft lip and palate surgery

- (1) timing of surgery is immaterial
- (2) cleft palate repair precedes lip repair
- (3) both lip and soft palate repair are done at the same sitting
- (4) cleft palate repair is done after lip surgery

24. Clostridium causing gas gangrene is

- (1) gram positive, aerobic, non spore bearing
- (2) gram positive, anaerobic, non spore bearing
- (3) gram negative, naerobic, spore bearing
- (4) gram positive, anaerobic, spore bearing

25. Reactionary haemorrhage occurs

- (1) following reaction to sepsis
- (2) normalisation of BP and vasodilatation
- (3) due to sudden stoppage of transfusion
- (4) 7 –14 days after surgery

26. Cystic hygroma

- (1) may be bilateral and partially compressible
- (2) is a congenital retention cyst of salivary glands
- (3) form by cystic degeneration of lymph nodes
- (4) occur in the neck following difficult labour.

27. Frey's syndrome is

- (1) post parotidectomy facial weakness
- (2) post parotidectomy gustatory sweating
- (3) post parotidectomy ear lobule numbness
- (4) post parotidectomy salivary fistulae

28. Sensation of pain that is produced by an innocuous stimuli is known as
- (1) Analgesia (2) Hypoalgesia
(3) Habituation (4) Allodynia
29. Oral dyskinesia is also known as
- (1) Gilles de la Tourette syndrome (2) Bucco-linguo-masticatory syndrome
(3) Meige syndrome (4) None of the above
30. The two most effective tricyclic antidepressants that block reuptake of norepinephrine and serotonin in neuropathic pain are
- (1) Paroxetine and Citalopram (2) Amitryptiline and Imipramine
(3) Fluoxetine and Desipramine (4) Gabapentin and Pregabalin
31. In classical migraine, the zigzag flashing coloured phenomenon that migrates across the visual field is known as
- (1) Scotoma (2) Photopsia
(3) Teichopsia (4) Spectropsia
32. The normal renal threshold for glucose is
- (1) 180 mgm% (2) 175 mgm%
(3) 150 mgm% (4) 200 mgm%
33. Uhthoff's sign is pathognomic of
- (1) Multiple Myeloma (2) Infectious Mononucleosis
(3) Tuberculosis (4) Multiple Sclerosis
34. An immobile, expressionless appearance with difficulty in mastication is a prominent manifestation of
- (1) Hansen's disease (2) Myasthenia Gravis
(3) Ascariasis (4) Kwashiorkor
35. The T-1 relaxation time in Magnetic Resonance Imaging measures
- (1) The interaction between adjacent magnetic fields
(2) The interaction between adjacent Hydrogen nuclei
(3) The interaction between the Hydrogen nuclei and the magnetic field
(4) None of the above

36. The most avascular portion of the articular disk of the TMJ is
- | | |
|---------------------|-------------------|
| (1) Central portion | (2) Anterior band |
| (3) Posterior band | (4) Periphery |
37. The possibility of CSF rhinorrhoea should be considered in all EXCEPT
- | | |
|--------------------------|--------------------------------|
| (1) Le Fort I fracture | (2) Le fort II fracture |
| (3) Le fort III fracture | (4) Le fort II & III fractures |
38. Battle's sign is
- | |
|--|
| (1) Ecchymosis at greater palatine foramen |
| (2) Ecchymosis at mastoid region |
| (3) Ecchymosis at condylar region |
| (4) Ecchymosis at infraorbital foramen |
39. A characteristic "dumbell shaped" swelling is characteristic of which type of odontogenic infection
- | | |
|--------------------------------|------------------------------|
| (1) Ludwigs Angina | (2) Buccal space infection |
| (3) Sublingual space infection | (4) Temporal space infection |
40. The greatest rate of recurrence is seen in
- | | |
|----------------------|----------------------|
| (1) Dentigerous cyst | (2) Periapical cyst |
| (3) Keratocyst | (4) Periodontal cyst |
41. The most common site of the mandibular fracture
- | | |
|---------------|--------------|
| (1) Angle | (2) Condyle |
| (3) Symphysis | (4) Coronoid |
42. Fordyce granules are
- | | |
|-------------------|----------------------|
| (1) Benign tumour | (2) Malignant tumour |
| (3) Choristoma | (4) Hamartoma |
43. Which of the following tests will give an accurate assessment of platelet function?
- | | |
|--------------------------|----------------------|
| (1) Clotting time | (2) Prothrombin time |
| (3) Clot retraction time | (4) Bleeding time |

44. In doing gingival retraction all of the following are used EXCEPT
- (1) 8% racemic epinephrine (2) 8% alum
(3) 8% Zinc chloride (4) 40% Zinc chloride
45. Which ridge relationship is observed in the modified ridgelap pontic design?
- (1) Atleast 2 mm above the ridge (2) Pontic contact on the ridge crest
(3) Facial contact only (4) Straddles the ridge faciolingually
46. The Kennedy classification that is more suitable for an non locking internal attachment is
- (1) Class I (2) Class II
(3) Class I & Class II (4) Class IV
47. A multiple clasp is
- (1) Two bar clasp joined together
(2) Two circumferential clasp with one minor connector
(3) Two opposing circumferential clasps joined at the terminal end of the two reciprocal arms
(4) Many clasp joined together
48. Basic form of mandibular major connector in a lingual bar
- (1) Half pear shape (2) Pear shape
(3) Strap type (4) U shape
49. The advantage of metal base denture is
- (1) Better thermal conductivity (2) Easy lab procedure
(3) Rebasing and relining are quite easy (4) Increase in restorative cost
50. The first step in maxillary major connector construction is
- (1) Design of stress bearing area
(2) Design of non stress bearing area
(3) Making the outline of the primary bearing areas
(4) Selection of strap type

59. Aztreonam at very low concentrations inhibits
- | | |
|-------------------------|-----------------------------------|
| (1) Gram positive cocci | (2) Gram negative enteric bacilli |
| (3) Faecal anaerobes | (4) All of the above |
60. Optic neuritis is most likely to occur with
- | | |
|------------------|-------------------------------|
| (1) Ethambutol | (2) Rifampicin |
| (3) Pyrazinamide | (4) Para amino salicylic acid |
61. Ethosuximide is effective in
- | | |
|---------------------------------------|----------------------|
| (1) Generalised tonic clonic seizures | (2) Absence seizures |
| (3) Atonic seizures | (4) All of the above |
62. Sodium potassium pump
- | | |
|----------------------------------|-----------------------------------|
| (1) Pumps three sodium ions in | (2) Pumps three sodium ions out |
| (3) Pumps two potassium ions out | (4) Pumps three potassium ions in |
63. Sodium activation gates are blocked by applying
- | |
|--|
| (1) Tetrodotoxin on the inside of cell membrane |
| (2) Tetraethylammonium on the outside of cell membrane |
| (3) Tetrodotoxin on the outside of cell membrane |
| (4) Tetraethylammonium on the inside of cell membrane |
64. Fast muscle fibres have
- | |
|--|
| (1) Large amounts of glycolytic enzymes and fewer mitochondria |
| (2) Lesser amounts of glycolytic enzymes and fewer mitochondria |
| (3) Large amounts of glycolytic enzymes and greatly increased number of mitochondria |
| (4) Lesser amounts of glycolytic enzymes and greatly increased amounts of myoglobin |
65. Hole forming proteins are produced by
- | | |
|--------------------|------------------------|
| (1) B lymphocytes | (2) Cytotoxic T cells |
| (3) Helper T cells | (4) Suppressor T cells |

66. The granularity in granular cell tumours is because of
(1) Mitochondria (2) Autophagic vacuoles
(3) Dilated endoplasmic reticulum (4) Fine fatty droplets
67. Oral involvement in MEN IIB syndrome occurs in the form of
(1) Telangiectasias (2) Lingual thyroid
(3) Paragangliomas (4) Mucosal neuromas
68. The most common site for melanotic neuroectodermal tumour of infancy is
(1) Maxilla (2) Mandible
(3) Base of skull (4) Zygomatic arch
69. An alternate name for Warthin's tumour is
(1) Sebaceous adenoma
(2) Oxyphilic adenoma
(3) Papillary cystadenoma lymphomatosum
(4) Olfactory neuroblastoma
70. The most common malignant neoplasm arising from minor salivary glands is
(1) Adenoid cystic carcinoma (2) Polymorphous low grade carcinoma
(3) Acinic cell carcinoma (4) Mucoepidermoid carcinoma
71. Which of the following salivary neoplasms typically resembles infiltrating duct carcinoma breast?
(1) Mucoepidermoid carcinoma (2) Adenoid cystic carcinoma
(3) Salivary duct carcinoma (4) Acinic cell carcinoma
72. The odontogenic lesion most associated with nevoid basal cell carcinoma syndrome is
(1) calcifying odontogenic cyst (2) dentigerous cyst
(3) odontogenic keratocyst (4) gingival cyst of newborn

73. The following is true regarding local anaesthetics
- (1) block voltage gated potassium channels
 - (2) are chemically aminoesters or aminoamides
 - (3) only racemic mixtures are clinically effective
 - (4) brain and heart are not involved in systemic toxicity
74. The ratio of chest compression to ventilation in single rescuer basic life support
- (1) 30 : 2 for adult and 15 : 2 for paediatric patients
 - (2) 15 : 2 for all adult and paediatric patients
 - (3) 30 : 2 for all adult and paediatric patients
 - (4) 15 : 2 for adult and 30 : 2 for paediatric patients
75. Anaphylactic reaction (1gE mediated mast cell degranulation) can occur on exposure to
- (1) Opiates
 - (2) Fish & shell fish
 - (3) Aspirin
 - (4) Radiocontrast media
76. Which one of the following is a RNA virus?
- (1) Human papilloma virus
 - (2) Herpes simplex virus
 - (3) Hepatitis E virus
 - (4) Cytomegalo virus
77. Which of the following is an AIDS defining illness?
- (1) Oral hairy leukoplakia
 - (2) Recurrent oropharyngeal candidiasis
 - (3) HIV associated dementia
 - (4) Herpes zoster
78. Most sensitive marker of myocardial cell damage is
- (1) Troponin T & I
 - (2) CK — MB
 - (3) AST
 - (4) LDH

79. Relation between anatomic porion and machine porion in cephalometric radiograph
- (1) anatomic porion is posterior and superior to machine porion
 - (2) machine porion is posterior and superior to anatomic porion
 - (3) anatomic porion is anterior and superior to machine porion
 - (4) machine porion is anterior and superior to machine porion
80. Evaluation of Incisor Mandibular Plane Angle (IMPA) is part of
- (1) Steiner analysis
 - (2) Rickett analysis
 - (3) Tweed analysis
 - (4) McNamara analysis
81. When $M_C / M_F = I$, the tooth undergoes
- (1) pure tipping movement
 - (2) controlled tipping movement
 - (3) bodily movement
 - (4) root movement
82. Frankel appliance is a
- (1) tooth borne appliance
 - (2) tissue borne appliance
 - (3) both tooth and tissue borne appliance
 - (4) none of the above
83. Tip bend in archwire in standard edgewise appliance is also called a
- (1) first order bend
 - (2) second order bend
 - (3) third order bend
 - (4) fourth order bend
84. Face mask is used to
- (1) augment the maxillary growth
 - (2) retard the maxillary growth
 - (3) augment the mandibular growth
 - (4) retard the mandibular growth
85. Causalgia may be defined as
- (1) Pain after a trauma to a nerve that is associated with vasomotor dysfunction.
 - (2) Pain after a trauma to a nerve that is not associated with vasomotor dysfunction.
 - (3) Pain after a trauma to a muscle that is associated with vasomotor dysfunction.
 - (4) Pain after a trauma to a fascia that is not associated with vasomotor dysfunction.

86. Advantage of acid etching that led to its widespread use is - reduction in
- (1) Micro-leakage
 - (2) Porosity of restorative material
 - (3) Polymerization shrinkage of restoration
 - (4) Coefficient of thermal expansion of restoration
87. A ten year old child reports to the clinic 20 minutes after his right maxillary central incisor gets avulsed. The root surface of the avulsed tooth is dirty. The best thing to do next is
- (1) Scrub the root and re-implant
 - (2) Sterilize the root and re-implant
 - (3) Rinse it with saline to wash off the dirt and re-implant
 - (4) Curette the socket and re-implant
88. Direction of mesial and distal walls in a class V amalgam cavity is determined by
- (1) Direction of enamel rods
 - (2) Caries extent
 - (3) Gingivo-axial and occluso-axial
 - (4) Retention only
89. Cavernous sinus thrombosis may occur due to infection in the region of
- (1) Retromandibular vein
 - (2) Transverse facial vein
 - (3) Posterior auricular vein
 - (4) Superior ophthalmic vein
90. Damage to which of the following causes inability to close the eyelids fully
- (1) Facial nerve
 - (2) Oculomotor nerve
 - (3) Trigeminal nerve
 - (4) Optic nerve
91. The Drug of choice in treating a case of Anaphylaxis is
- (1) Norepinephrine (Intramuscular/Subcutaneous)
 - (2) Antihistamines
 - (3) Steroids (Intravenous)
 - (4) Epinephrine (Intramuscular/Subcutaneous)
92. The role of Methylparaben (0.1%) in LA cartridge is
- (1) Oxidizing agent
 - (2) Fungicide
 - (3) Reducing agent
 - (4) Vasoconstrictor

93. The function of posterior palatal seal
- (1) To aid in balanced occlusion
 - (2) To aid in insertion and removal of complete denture
 - (3) It slightly displaces the soft tissues at the distal end of the denture to enhance the posterior border seal
 - (4) Retention of mandibular denture by sealing its posterior margin
94. The normal biting force in natural and complete denture is
- (1) 44 lb and 13-16 lb
 - (2) 20 lb and 05 lb
 - (3) 30 lb and 70 lb
 - (4) 33 lb and 20-22 lb
95. The direction of resorption of maxillary ridge
- (1) Downwards and buccally
 - (2) Upwards and lingually
 - (3) Downwards and lingually
 - (4) Upwards and buccally
96. Functional technique of relining and rebasing material uses is
- (1) Functional wax
 - (2) Tissue conditioner
 - (3) Zinc oxide paste
 - (4) Alginate
97. The functional cusp are beveled in preparation of posterior cast crowns
- (1) To Reduce The Stress At The Line Angles
 - (2) To Prevent The Fracture Of The Tooth Structure
 - (3) For the structural durability of the restoration
 - (4) To help in retention
98. In partial veneer crown retention can be increased by
- (1) Increased length of parallel axial walls
 - (2) Increased taper
 - (3) Making path of removal parallel to long axis of adjacent teeth
 - (4) None of the above
99. For greatest retention of the porcelain veneer, the coping design should be
- (1) convex with undercuts
 - (2) evenly flowing convex contour
 - (3) convex with sharp angles
 - (4) concave on facial surface

100. Pain sensation from head and neck reaches ————— nucleus of thalamus
(1) Ventroposterolateral (2) Ventroposteromedial
(3) Anterior (4) Medial
101. Skin over angle of mandible is supplied by ————— nerve
(1) Maxillary (2) Mandibular
(3) Marginal mandibular (4) Great Auricular
102. The enzyme glucokinase is present in
(1) all tissues (2) liver
(3) liver and β cell of pancreas (4) liver and muscle
103. Cholesterol is precursor of
(1) bile acid (2) steroid hormones
(3) vitamin D (4) all of the above
104. Peptide bonds of protein constitute
(1) primary structure (2) secondary structure
(3) tertiary structure (4) quaternary structure
105. Hydroxylation of proline in collagen requires
(1) ascorbic acid (2) biotin
(3) thiamin (4) niacin
106. Hypercalcemia is caused by
(1) vitamin D deficiency (2) hypoparathyroidism
(3) hyperparathyroidism (4) acute pancreatitis
107. Green strength with reference to plaster means
(1) Dry strength
(2) Compressive strength
(3) Strength of dental stone due to green colour
(4) The wet strength

108. In man, type I immunological mediated diseases (anaphylactic reactions) are due to
- (1) IgA (2) IgE
(3) IgG (4) IgM
109. The following anticholinesterase is an organophosphate
- (1) Edrophonium (2) Echothiophate
(3) Propoxur (4) Rivastigmine
110. All the following are vasopressor agents EXCEPT
- (1) Phenylephrine (2) Isoprenaline
(3) Methoxamine (4) Mephentermine
111. The following is a stool softener
- (1) Liquid paraffin (2) Bran
(3) Bisacodyl (4) Sodium phosphate
112. Contraindications for barbiturates include
- (1) Liver disease (2) Renal disease
(3) Acute intermittent porphyria (4) All of the above
113. Most sedative antihistaminic among the following is
- (1) Loratadine (2) Chlorpheniramine
(3) Promethazine (4) Cinnarizine
114. Antimicrobial with highest therapeutic index among the following is
- (1) Polymyxin B (2) Chloramphenicol
(3) Erythromycin (4) Vancomycin
115. Following drug inhibits conversion of T₄ to T₃ in liver
- (1) Propylthiouracil (2) Methimazole
(3) Carbimazole (4) None of the above

116. Results of oversealance brushing can lead to
- | | |
|----------------|-----------------------|
| (1) Toxemia | (2) Bacterimia |
| (3) Septicemia | (4) none of the above |
117. Chlorhexidine is least effective against
- | | |
|---------------------------|-------------------------|
| (1) Gram positive cocci | (2) Gram negative cocci |
| (3) Gram negative bacilli | (4) All of the above |
118. Maximum possible score per person in gingival — bone count index is
- | | |
|-------|-------|
| (1) 3 | (2) 5 |
| (3) 7 | (4) 8 |
119. Radiographic criteria R3 for dental caries by Murray and Shaw, indicates
- (1) Radiolucent area in enamel and dentin not involving pulp
 - (2) Gross caries with definite pulp involvement
 - (3) Overlap and unreadable film
 - (4) Filled tooth
120. Hypertrophy of filiform papillae on the dorsal surface of the tongue is the basic defect in
- | | |
|----------------------------|------------------------|
| (1) Oral hairy leukoplakia | (2) Black hairy tongue |
| (3) Oral lichen planus | (4) erythroplakia |
121. 'Mulberry molars' are a characteristic of enamel hypoplasia due to
- | | |
|----------------------------|-------------------------|
| (1) Nutritional deficiency | (2) Congenital syphilis |
| (3) Hypocalcaemia | (4) Birth injuries |
122. Burkitt's lymphoma is associated with which one of the following chromosomal translocations?
- | | |
|---------------|--------------|
| (1) t (11;14) | (2) t (9;22) |
| (3) t (8;14) | (4) t (X;18) |

123. Langerhan's cell is characterized by presence of a small rod or flask shaped granule, sometimes called as
- (1) Weibel Palade Granules (2) Birbeck Granule
(3) Burton's granule (4) Tuftelin
124. Extracellular compartment of pulp consists of collagen fibers — Type I and Type III in ratio of
- (1) 45 55 (2) 56 41
(3) 40 60 (4) 60 40
125. Gene BARX-1 is associated with development of
- (1) Incisor (2) Canine
(3) Molar (4) Incisor and Canine
126. Coronoid cartilage appears at about
- (1) 8 weeks (2) 16 weeks
(3) 18 weeks (4) 20 weeks
127. The first successful demonstration of surgical anaesthesia is credited to the dental surgeon
- (1) James Robinson (2) Gardner Q Colton
(3) Joel Weaver (4) William TG Morton
128. Midazolam used for conscious sedation has the following specific antidote
- (1) naloxone (2) alzolam
(3) flumazenil (4) caffeine
129. The intravenous induction agent with analgesic property is
- (1) propofol (2) ketamine
(3) thiopentone (4) etomidate

130. Use of immobilization as a behaviour management technique is indicated in which of the following situations
- (1) Patient does not cooperate because of lack of maturity
 - (2) Patient does not cooperate because of mental or physical disabilities
 - (3) The safety of patient or practitioner would be at risk with out the use of protective immobilization
 - (4) All of the above
131. 4 S exercise in the treatment of tongue thrusting habit includes all of the following EXCEPT
- (1) Swallowing
 - (2) Squeezing
 - (3) Support
 - (4) Salivation
132. The critical pH for dissolution of enamel has been shown to be
- | | |
|---------|---------|
| (1) 5.5 | (2) 4.8 |
| (3) 4.5 | (4) 6.2 |
133. In IOTN treatment grade, presence of supernumerary teeth is indicated in
- | | |
|-------------|-------------|
| (1) Grade 1 | (2) Grade 2 |
| (3) Grade 3 | (4) Grade 4 |
134. The earliest approach to study growth is
- | | |
|------------------|-----------------------|
| (1) Cephalometry | (2) Anthropometry |
| (3) Craniometry | (4) None of the above |
135. Hydrocephaly may best be described by
- | | |
|------------------------------|-----------------------|
| (1) Cartilaginous theory | (2) Sutural theory |
| (3) Functional matrix theory | (4) None of the above |
136. Unusual eruption sequence with clinical significance in
- (1) eruption of permanent second molars ahead of premolars in maxillary arch
 - (2) eruption of permanent canines ahead of premolars in maxillary arch
 - (3) eruption of permanent first molars ahead of permanent canines in mandibular arch
 - (4) eruption of permanent canines ahead of premolars in mandibular arch

137. Which of the following is not true about hand instruments in operative dentistry?
- (1) They are generally made of stainless steel
 - (2) Nickle- Cobalt- Cromium is never used in its fabrication
 - (3) Carbon steel is more efficient than stainless steel
 - (4) It can be made with stainless steel with carbide inserts
138. Term used for a material with high compressive strength but low tensile strength
- (1) Ductile
 - (2) Malleable
 - (3) Resilient
 - (4) Brittle
139. The blue coloured reamer is numbered as
- (1) 6 sized instrument
 - (2) 30 Sized instrument
 - (3) 25 and 50 sized instrument
 - (4) 30 and 60 sized instrument
140. K flex file is traditionally made from which shaped plank
- (1) Diamond
 - (2) Triangular
 - (3) Square
 - (4) All of the above
141. Chairside sterilization of Gutta Percha is best by
- (1) 90% Alcohol
 - (2) 10% hydrogen peroxide
 - (3) 5% solution of NaOCI
 - (4) None of the above
142. Which is a hybrid instrument?
- (1) H-files
 - (2) Unifiles
 - (3) Flex-o-Flex
 - (4) U files
143. Action of Dentin conditioner is?
- (1) Removal of smear layer
 - (2) Increases surface free energy of dentin
 - (3) Forms thin layer between collagen and resin
 - (4) Bonds with composite

144. The Lamina Densa of the basal epithelium is composed of
- (1) Type I collagen
 - (2) Type IV collagen
 - (3) Type III collagen
 - (4) Type II collagen
145. The active ingredient in Periostat (host modulatory agent) is
- (1) Clavulanic acid
 - (2) Tetracycline hydrochloride
 - (3) Doxycycline hyclate
 - (4) Alendronic acid
146. The vertical technique of toothbrushing is technically known as
- (1) Bass technique
 - (2) Modified Stillman technique
 - (3) Scrub technique
 - (4) Leonard technique
147. In magnetostrictive ultrasonic scaler units, the pattern of vibration of the tip is
- (1) Circular
 - (2) Elliptical
 - (3) Linear
 - (4) Parabolic
148. Enamel matrix proteins, mainly *Amelogenin*, are secreted by
- (1) Hertwig's epithelial root sheath
 - (2) Stratum Lucidum
 - (3) Stellate reticulum
 - (4) Differentiated Odontoblasts
149. Any gene or nucleotide sequence that can be mapped to a specific location or region on a chromosome is termed as
- (1) Reporter gene
 - (2) Transcriptor gene
 - (3) Genetic marker
 - (4) Palindromic marker
150. The middle region of alveololingual sulcus extends from
- (1) Lingual frenum to where the mylohyoid ridge curves down below level of sulcus
 - (2) Premylohyoid fossa to the distal end of the mylohyoid ridge curving medially from body of the mandible
 - (3) Retromylohyoid space
 - (4) None of the above

151. Cell responsible for myelination in central nervous system is
- | | |
|----------------------------|-----------------------|
| (1) Oligodendrocyte | (2) Fibrous astrocyte |
| (3) Protoplasmic astrocyte | (4) Microglia |
152. All are derivatives of the second Pharyngeal Arch EXCEPT
- | | |
|----------------------------|---------------------------------|
| (1) Stapes | (2) Styloid process |
| (3) Lesser cornua of hyoid | (4) Lower part of body of hyoid |
153. All structures are present within parotid gland EXCEPT
- | | |
|-----------------------------|-------------------|
| (1) Facial nerve | (2) Facial artery |
| (3) External carotid artery | (4) Lymph nodes |
154. All are elevators of Temporo-Mandibular joint EXCEPT
- | | |
|----------------------|-----------------------|
| (1) Temporalis | (2) Masseter |
| (3) Medial pterygoid | (4) Lateral pterygoid |
155. All structures are derived from Neural crest EXCEPT
- | | |
|---------------------|-------------------|
| (1) Adrenal medulla | (2) Melanocytes |
| (3) Ependymal cells | (4) Schwann cells |
156. Motor supply to following muscles is by the Ansa Cervicalis EXCEPT
- | | |
|-------------------|--------------------------------|
| (1) Sternohyoid | (2) Hyoglossus |
| (3) Sternothyroid | (4) Superior belly of Omohyoid |
157. All structures pass through superior orbital fissure EXCEPT
- | | |
|------------------------------|-----------------------|
| (1) Anterior ethmoidal nerve | (2) Lacrimal nerve |
| (3) Inferior ophthalmic vein | (4) Nasociliary nerve |
158. The _____ sinus does not open into middle meatus
- | | |
|----------------|------------------------|
| (1) Frontal | (2) Maxillary |
| (3) Sphenoidal | (4) Anterior ethmoidal |

159. All of the following are chemical mediators of acute inflammation EXCEPT
- (1) Prostaglandins
 - (2) Histamine
 - (3) Prothrombin
 - (4) Serotonin
160. Which one of the following cells is the major component of pus?
- (1) Plasma cells
 - (2) Collagen
 - (3) Neutrophils
 - (4) Macrophages
161. Which one of the following is the prominent lesion seen in shock kidney?
- (1) Cloudy swelling
 - (2) Fatty change
 - (3) Infarction
 - (4) Acute tubular necrosis
162. Red infarcts are encountered in all of the following conditions EXCEPT
- (1) with venous occlusion
 - (2) in loose tissue
 - (3) in organs with double circulation
 - (4) with arterial occlusion
163. Which one of the following is a prime example of concomitant hyperplasia and hypertrophy?
- (1) Uterine growth during pregnancy
 - (2) Skin warts in papillomavirus infections
 - (3) Skeletal muscle enlargement in athletes and bodybuilders
 - (4) Breast enlargement at puberty
164. The fluid that accumulates during acute inflammation with a high protein content and specific gravity above 1.020 is referred to as
- (1) Transudate
 - (2) Exudate
 - (3) Plasma
 - (4) Serum
165. Endotoxic shock is commonly caused by all the following organisms EXCEPT
- (1) *Pseudomonas aeruginosa*
 - (2) *Corynebacterium diphtheriae*
 - (3) *Escherichia coli*
 - (4) *Proteus mirabilis*
166. The classic morphologic lesion of primary tuberculosis in the lung is called the
- (1) Simon focus
 - (2) Ziehl-Neelsen focus
 - (3) Ghon focus
 - (4) Mantoux focus

167. Concept of "well fare state" in public health is aimed to fight against
- (1) Poverty, ill-health and ignorance (2) Virus, bacteria and fungi
 (3) Illegality, imitation and illiteracy (4) Flood, draught and malnutrition
168. Formula of standard deviation is written as
- (1) $SD = \sqrt{\{\Sigma d^2 / (n - 1)\}}$ (2) $SD = \sqrt{\{\Sigma d^2 / (n + 1)\}}$
 (3) $SD = \sqrt{\{\Sigma d^2 / (1 - n)\}}$ (4) $SD = \sqrt{\{\Sigma d^2 / (1 + n)\}}$
169. The definition of epidemiology most commonly used in literature is given by
- (1) Paul J R (2) Clark E G
 (3) John M Last (4) Lowe and Kostrzewski
170. Prevalence rate is increased by
- (1) Increase in incidence (2) In migration of healthy people
 (3) All of the above (4) None of the above
171. The most reliable and contemporary method for fluoride analysis in food is
- (1) Calorimetric technique
 (2) Microdiffusion technique
 (3) Perchloric acid diffusion technique
 (4) Silanol extraction after ashing in a closed oxygen bomb technique
172. In India the first work on deflouridation was done by
- (1) National Chemical Laboratory, Pune
 (2) National Environmental Engineering Research Institute, Nagpur
 (3) Institute of Chemical Biology, Kolkata
 (4) None of the above

173. Eruption date of deciduous maxillary second molar
(1) 20 months (2) 18 months
(3) 24 months (4) 28 months
174. The zygomatic bone does not articulate with
(1) Frontal bone (2) Maxillary bone
(3) Nasal bone (4) Temporal bone
175. Largest embrasure lies between
(1) Maxillary central incisors
(2) Maxillary central and lateral incisor
(3) Maxillary canine and first premolar
(4) Maxillary lateral incisor and canine
176. Neural crest migration commences on which day
(1) 20 days (2) 21 days
(3) 23 days (4) 28 days
177. Formation of dental lamina is initiated by
(1) Forebrain (2) Rathke's Pouch
(3) Neural crest cells (4) Odontoblasts
178. Neonatal line is also referred to as
(1) Retzius line (2) Enamel tufts
(3) Line of cross striations (4) Incremental lines
179. Breadth of enamel rod is
(1) 6 μ m (2) 5 μ m
(3) 12 μ m (4) 8 μ m
180. Clumping and vacuolation within the odontoblasts in older teeth is referred to as
(1) Interregnum (2) Wheat Sheafing
(3) Buckling (4) Weibel Palade Granules

181. Which of the following is not present in autosomal dominant inheritance?
- (1) Male and female are equally likely to be affected
 - (2) On average, 50% of the offspring of an affected parent will also be affected
 - (3) Phenotype in successive generations, shows horizontal inheritance
 - (4) Amelogenesis imperfecta provides an excellent example of autosomal dominant inheritance
182. Manhausen syndrome by proxy is given by
- (1) Dr Richard Ascher in 1951
 - (2) Dr C. Henry Kempe in 1962
 - (3) Dr Robert Bunon in 1953
 - (4) Dr Radbill in 1973
183. The oral burn appliance is generally delivered
- (1) Between the 10th and 14th days after the injury
 - (2) After 1 month of injury
 - (3) At first visit after injury
 - (4) After 48 hours of injury
184. Which of the following is not **TRUE**?
- (1) Child requires lower ventilation pressure to expand the lungs
 - (2) The ribs and intercostal muscles have more support in children
 - (3) In resting position the child's ribs are more horizontally placed than those of adults
 - (4) Diaphragm becomes the primary breathing muscle in paediatric patient
185. Retention of stainless steel crown mainly depends on
- (1) Adaptation of crown
 - (2) Contouring of crown
 - (3) Cementing medium
 - (4) Remaining tooth structure
186. Number of fontanelle present unclosed at birth are
- (1) 4
 - (2) 6
 - (3) 3
 - (4) 1
187. Which of the following is not a caloric sugar substitute?
- (1) Sorbitol
 - (2) Xylitol
 - (3) Lycasin
 - (4) Saccharin

188. Hutchinsons triad includes

- (1) Hypoplasia of permanent molars, VIII nerve deafness and interstitial keratitis
- (2) Hyperplasia of permanent incisors and molars, VIII nerve deafness and keratitis
- (3) Hypoplasia of permanent incisors and molars, VII nerve deafness and interstitial keratitis
- (4) Hypoplasia of permanent incisors and molars, VIII nerve deafness and interstitial keratitis

189. Which of the following is not true about lubricant for rubber dam placement?

- (1) Should have water miscible vehicle
- (2) Vaseline is an ideal choice
- (3) Should be easy to remove
- (4) Should not interfere with the bonding procedure

190. Shape of the access cavity for mandibular 1st molar with four canals is

- | | |
|----------------|---------------|
| (1) Triangular | (2) Trapezoid |
| (3) Oval | (4) Round |

191. Rounding of the axio-pulpal line angle in proximo-occlusal preparation is considered as a part of

- | | |
|-----------------------------|----------------------|
| (1) Refining of line angles | (2) Retention form |
| (3) Resistance form | (4) Convenience form |

192. Fluoride in GIC leaches out and is replaced by

- | | |
|---------------------|-------------------|
| (1) Hydroxyl ion | (2) Aluminium ion |
| (3) Carboxylate ion | (4) Silicate ion |

193. Which of the following principle of cavity preparation is not considered much in modern methods of restorative dentistry?

- | | |
|----------------------------------|-----------------------|
| (1) Extension for prevention | (2) Convenience form |
| (3) Removal of undermined enamel | (4) Removal of caries |

194. The width of the compression cuff should be approximately _____% greater than the diameter of the extremity on which blood pressure is being recorded.
- (1) 10% (2) 20%
(3) 30% (4) 40%
195. The maximum dosage of lignocaine without adrenaline that can be administered to a patient is
- (1) 4 mg/Kg body wt (2) 5 mg /Kg body wt
(3) 7 mg/Kg body wt (4) 9 mg/Kg body wt
196. The average distance of inferior alveolar canal from the lower border of the mandible is
- (1) 01 cm (2) 02 cm
(3) 05 mm (4) 07 mm
197. One of the two major antigenic determinants for Bullous Pemphigoid is the 230 kD protein known as BP1, the other antigenic determinant is the
- (1) 280 kD collagen like transmembrane protein termed as BP2.
(2) 180 kD collagen like transmembrane protein termed as BP2.
(3) 200 kD collagen like transmembrane protein termed as BP2.
(4) 200 kD collagen like intracytoplasmic protein termed as BP2.
198. The matrix of the most differentiated epithelial cell is made up of
- (1) Laminin (2) Keratohyaline
(3) Filaggrin (4) Elastin
199. A microorganism that can substitute Progesterone or Estradiol for vitamin K as an essential bacterial growth factor is
- (1) Porphyromonas gingivalis (2) Eikenella corrodens
(3) Campylobacter rectus (4) Prevotella intermedia
200. Chronic granulomatous disease is characterized by deficiencies in the
- (1) NADPH oxidase system
(2) Na - ATPase electron transport system
(3) Myeloperoxidase system
(4) β - fatty acid oxidation system

Space For Rough Work

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SEAL