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# **OPSC Assistant Professor**

**Previous Year Paper  
2019 Pedodontics &  
Preventive Dentistry**



**DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE ASKED TO DO SO**

Test Booklet Series

T. B. C. : APD(Pedo) –6-18/19

**A**

## TEST BOOKLET

ASSISTANT PROFESSOR (DENTISTRY)

Pedodontics & Preventive Dentistry

Sl. No.

1808

Time Allowed : 3 Hours

Maximum Marks : 200

### : INSTRUCTIONS TO CANDIDATES :

1. IMMEDIATELY AFTER THE COMMENCEMENT OF THE EXAMINATION, YOU SHOULD CHECK THAT THIS TEST BOOKLET **DOES NOT** HAVE ANY UNPRINTED OR TORN OR MISSING PAGES OR ITEMS ETC. IF SO, GET IT REPLACED BY A COMPLETE TEST BOOKLET OF THE SAME SERIES ISSUED TO YOU.
2. ENCODE CLEARLY THE TEST BOOKLET SERIES **A, B, C** OR **D**, AS THE CASE MAY BE, IN THE APPROPRIATE PLACE IN THE ANSWER SHEET USING BALL POINT PEN (BLUE OR BLACK).
3. You have to enter your **Roll No.** on the Test Booklet in the Box provided alongside. **DO NOT** write *anything else* on the Test Booklet.
4. **YOU ARE REQUIRED TO FILL UP & DARKEN ROLL NO., TEST BOOKLET / QUESTION BOOKLET SERIES IN THE ANSWER SHEET AS WELL AS FILL UP TEST BOOKLET / QUESTION BOOKLET SERIES AND SERIAL NO. AND ANSWER SHEET SERIAL NO. IN THE ATTENDANCE SHEET CAREFULLY. WRONGLY FILLED UP ANSWER SHEETS ARE LIABLE FOR REJECTION AT THE RISK OF THE CANDIDATE.**
5. This Test Booklet contains **200** items (questions). Each item (question) comprises four responses (answers). You have to select the correct response (answer) which you want to mark (darken) on the Answer Sheet. In case, you feel that there is more than one correct response (answer), you should mark (darken) the response (answer) which you consider the best. In any case, choose **ONLY ONE** response (answer) for each item (question).
6. You have to mark (darken) all your responses (answers) **ONLY** on the **separate Answer Sheet** provided by using **BALL POINT PEN (BLUE OR BLACK)**. See instructions in the Answer Sheet.
7. All items (questions) carry equal marks. All items (questions) are compulsory. Your total marks will depend only on the number of correct responses (answers) marked by you in the Answer Sheet. **There will be no negative marking for wrong answer.**
8. Before you proceed to mark (darken) in the Answer Sheet the responses (answers) to various items (questions) in the Test Booklet, you have to fill in some particulars in the Answer Sheet as per the instructions sent to you with your **Admission Certificate**.
9. After you have completed filling in all your responses (answers) on the Answer Sheet and after conclusion of the examination, you should hand over to the Invigilator the *Answer Sheet* issued to you. You are allowed to take with you the candidate's copy / second page of the Answer Sheet along with the **Test Booklet**, after completion of the examination, for your reference.
10. Sheets for rough work are appended in the Test Booklet at the end.

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JM – 6A/25

Contd.

SEAL

1. A soft tissue swelling due to trauma to minor salivary gland duct is :
  - (A) Fordyce's Granules
  - (B) Mucocele
  - (C) Sublingual dermoid cyst
  - (D) Sialolithiasis
2. A soft tissue benign tumor that can occur due to low grade irritation is :
  - (A) Ranula
  - (B) Lichenplanus
  - (C) Fibroma
  - (D) Frictional keratosis
3. The maximum recommended dose for lidocaine is :
  - (A) 4.4 mg/kg body wt
  - (B) 6.2 mg/kg body wt
  - (C) 3.3 mg/kg body wt
  - (D) 2.0 mg/kg body wt
4. A child undergoing treatment in dental chair shows sudden onset of immobility and blank stare followed by blinking of eyelids and recovers in short duration. The probable condition of the child is :
  - (A) Partial seizures
  - (B) Syncope
  - (C) Hypoglycemic attack
  - (D) Tonic clonic seizure
5. Behaviour of the dentist that the child would dislike is :
  - (A) Dentist to talk while working
  - (B) To watch in a mirror while the dentist is working
  - (C) Make the child get into the dental chair unassisted
  - (D) Compare his behaviour with a child in the next dental chair
6. The concept of decorating the dental clinic to suit the child is primarily based on :
  - (A) Eric Ericson's theory
  - (B) Frued's theory
  - (C) Classic conditioning theory
  - (D) Operant conditioning theory
7. For sterilization of burs by chemical method, the appropriate agent to be used is :
  - (A) Povidone iodine 1%
  - (B) Sodium Hypochlorite 5%
  - (C) Gluteraldehyde 2%
  - (D) Propylene glycol 2%

8. Steep Curve of Spee is associated with :
- (A) Good occlusion
  - (B) Spacing in upper jaw
  - (C) Upper arch crowding
  - (D) Buccal occlusion
9. False negative reading may obtained when electric pulp tester is used for vitality test in case of :
- (A) Incomplete root formation
  - (B) Failure to isolate the tooth
  - (C) Anxiety of the patient
  - (D) Moist gangrenous pulp
10. If a habit breaking appliance is planned for a child patient, it should be included in the treatment plan in :
- (A) Medical Phase
  - (B) Systemic Phase
  - (C) Preventive Phase
  - (D) Corrective Phase
11. According to AAPD guidelines the first visit of child to the dentist should ideally be at the age of :
- (A) 3 years
  - (B) After 2 years
  - (C) After 1 year
  - (D) Before first birthday
12. The antidote to be given in case of benzodiazepine drug over dose is :
- (A) Flumazenil
  - (B) Nalaxone
  - (C) Adrenaline
  - (D) Atropine
13. The advantage of adding zinc to amalgam alloy is :
- (A) Suppress the oxidation of key elements in alloy
  - (B) Improves the compressive strength
  - (C) Causes delayed expansion
  - (D) Makes it less susceptible to moisture contamination
14. The proper way of disposing scrap amalgam is :
- (A) Pour it to drain
  - (B) Incinerate
  - (C) Tightly capped jar containing spent x ray fixer
  - (D) Open container filled with water

15. Mixing time of glass ionomer cements is in the range of :
- (A) 20-30 sec
  - (B) 45-60 sec
  - (C) 60-90 sec
  - (D) 120-150 sec
16. Microfilled composites can be used in :
- (A) Class II cavities
  - (B) Class IV cavities
  - (C) Class III cavities
  - (D) Class VI cavities
17. The compression ventilation ratio for a 5 years old child in case of single rescuer is :
- (A) 15 : 2
  - (B) 30 : 2
  - (C) 20 : 12
  - (D) 30 : 1
18. If all patients requiring pulp therapy are scheduled at a particular day in a week it is :
- (A) Periodic scheduling
  - (B) Planned scheduling
  - (C) Block scheduling
  - (D) Random scheduling
19. Diagnodent used for early diagnosis of caries makes use of :
- (A) Fiber optic transillumination
  - (B) Laser Fluorescence
  - (C) Electrical resistance measurement
  - (D) Ultrasonic waves
20. A water insoluble polysaccharide which serves as a 'glue' for *S. mutans* is :
- (A) Starch
  - (B) Sorbitol
  - (C) Glucan
  - (D) Fructan
21. The following behaviour management technique can be used in a blind child :
- (A) Tell-Show-Do
  - (B) Tell and Do
  - (C) Tell-touch-Smell-Do
  - (D) Show and Do

22. Contingency Management is based on :
- (A) Operant conditioning theory
  - (B) Social learning theory
  - (C) Cognitive theory
  - (D) Psychosocial theory
23. If the mother is authoritarian, the type of behaviour possibly seen in her child is :
- (A) Shy and timid
  - (B) Stubborn and defiant
  - (C) Evasive and dawdling
  - (D) Fearful and anxious
24. One of the following is contra-indication for oral screen :
- (A) High arched palate
  - (B) Incompetent lips
  - (C) Narrow upper arch
  - (D) Enlarged adenoids
25. The treatment for a primary molar with deep caries with radiographic evidence of 1 mm bone loss in furcation area is :
- (A) Indirect pulp capping
  - (B) Pulpotomy
  - (C) Pulpectomy
  - (D) Extraction
26. The material which is used to achieve apexification is :
- (A) Non-setting calcium hydroxide paste
  - (B) Dycal
  - (C) Zinc oxide eugenol
  - (D) Glass ionomer
27. One of the following is not an indication of space maintainer after extraction of a lower second primary molar :
- (A) Delayed eruption of 2nd premolar
  - (B) Congenitally absent 2nd premolar
  - (C) Three fourth of root development of 2nd premolar is completed
  - (D) Presence of crowding in lower arch

28. An example for unilateral, fixed, nonfunctional active space maintainer is :
- (A) Band and loop
  - (B) Distal shoe
  - (C) Gerber's space regainer
  - (D) Hotz lingual arch
29. The agent that can be used to control hemorrhage in Hemophilic patient is :
- (A) Adrenaline
  - (B) Hydrochloric acid
  - (C) C-aminocaproic acid
  - (D) Heparin
30. Pulp therapy of primary teeth is contraindicated if the child has one of the following medical conditions :
- (A) Hemophilia
  - (B) Thrombocytopenia
  - (C) Thalassemia
  - (D) Immunosuppressed patients
31. All the following are indications for pit and fissure sealant except :
- (A) Tooth in question erupted less than 4 years ago
  - (B) Medically compromised patient
  - (C) Presence of proximal caries
  - (D) Patient is from low socio-economic background
32. All the following are normal features of deciduous dentition, except :
- (A) Ugly duckling stage
  - (B) Spacing
  - (C) Deep bite
  - (D) Flush terminal plane
33. The average time required for root completion after eruption of primary tooth is :
- (A) One year
  - (B) Two years
  - (C) Six months
  - (D) Three years
34. The pH of 8% stannous fluoride solution is :
- (A) 7.0
  - (B) 2.4-2.8
  - (C) 3.0-3.2
  - (D) 4.5-5.5

35. Identify the false statement :
- (A) Ego and superego usually temper Id
  - (B) Ego is the mediator between Id and Superego
  - (C) Superego is the mediator between Id and Ego
  - (D) Ego tries to fulfil Id restraining to the demands of Superego
36. The following are included in Pedodontic triangle :
- (A) Child, Parent, Society and school teacher
  - (B) Child, Parent and Dentist only
  - (C) Parent, Society and Dentist only
  - (D) Child, Parent, Society and Dentist
37. A differentiating feature of acute herpetic gingivostomatitis from ANUG is :
- (A) It is not contagious
  - (B) Presence of punched out necrotic ulcers on interdental papilla
  - (C) The disease is self-limiting with ulcers healing within 7-10 days
  - (D) It is of bacterial origin
38. The dosage of Amoxicillin recommended for children as prophylaxis against sub-acute bacterial endocarditis :
- (A) 20 mg/kg
  - (B) 50 mg/kg
  - (C) 70 mg/kg
  - (D) 100 mg/kg
39. Feeding plate is used in children with :
- (A) Cleft palate
  - (B) Cerebral Palsy
  - (C) Cleft lip
  - (D) Downs Syndrome
40. In which deficiency is Strawberry tongue seen ?
- (A) Vitamin B complex deficiency
  - (B) Scarlet fever
  - (C) Candidiasis
  - (D) Herpes infection
41. Riga-Fede Syndrome is associated with :
- (A) Hypoplasia of teeth
  - (B) Supernumerary teeth
  - (C) Natal teeth
  - (D) Discoloured teeth

42. Kopliks spots are seen in :
- Mumps
  - Measles
  - Chicken Pox
  - Scarlet fever
43. The percentage of fluoride in sodium fluoride solution is :
- 1
  - 2
  - 3
  - 4
44. The value of E in the formula  $0.34/E$  used for water fluoridation is :
- $0.038 + 0.0062 \times \text{Temperature in } ^\circ\text{F}$
  - $-0.038 + 0.0062 \times \text{Temperature in } ^\circ\text{C}$
  - $0.038 - 0.0062 \times \text{Temperature in } ^\circ\text{F}$
  - $-0.038 + 0.0062 \times \text{Temperature in } ^\circ\text{F}$
45. Dicalcium phosphate dihydrate is formed during application of :
- 1.23% Acidulated Phosphate Fluoride
  - 2% Sodium fluoride
  - 8% Stannous fluoride
  - 1% Amine fluoride
46. The bacterial enzyme inhibited by fluoride is :
- Enolase
  - Pyruvase
  - Cryolase
  - Phosphatase
47. The marginal gingiva of children is :
- Sharp
  - Rounded
  - Serrated
  - Less prominent
48. The purpose of lead foil used in a IOPA film packet is :
- Protects it from light
  - Makes the film stiff
  - Makes it easier to place inside the child's mouth
  - Prevents back scatter radiation
49. Class IV of Ellis and Davis Classification of Fracture indicates :
- Non-vital pulp
  - Root fracture
  - Avulsion
  - Displacement

50. Subluxation means :
- (A) Tooth with pain but no mobility
  - (B) Tooth that is displaced
  - (C) Tooth is mobile but in its place
  - (D) Tooth out of the socket
51. Apexification is done in a :
- (A) Vital young permanent tooth
  - (B) Non-vital young permanent tooth
  - (C) Vital deciduous tooth
  - (D) Non vital deciduous tooth
52. The type of splint that should be placed during management of luxation injury is :
- (A) Rigid
  - (B) Semirigid
  - (C) Flexible
  - (D) Either of these
53. Which of the below is a part of health promotion ?
- (A) Pit and fissure sealants
  - (B) Oral prophylaxis
  - (C) Fluoride Application
  - (D) Anticipatory guidance
54. Percentage of Formocresol used for pulpotomy is :
- (A) 5
  - (B) 10
  - (C) 15
  - (D) 20
55. Dental Home is a concept with an objective of :
- (A) Continuous comprehensive prevention based care
  - (B) Comprehensive care for only medically compromised patients
  - (C) Family centred operative care
  - (D) Behaviour guidance
56. Splints are NOT used in the management of :
- (A) Concussion
  - (B) Luxation
  - (C) Subluxation
  - (D) Avulsion
57. The concentration of fluoride in Acidulated phosphate fluoride gel is :
- (A) 8%
  - (B) 1.23%
  - (C) 2%
  - (D) 2.32%

58. The antidote that can be given on excess ingestion of fluoride is :
- (A) Milk
  - (B) Water
  - (C) Glucose solution
  - (D) Salt solution
59. If muscles of facial expression do not contract and mandibular elevators contract, then the swallowing pattern would be :
- (A) Adult swallowing pattern
  - (B) Infantile swallowing pattern
  - (C) Simple tongue thrust
  - (D) Complex tongue thrust
60. The concentration of sodium fluoride daily mouth rinse is :
- (A) 0.5%
  - (B) 0.2%
  - (C) 0.05%
  - (D) 0.02%
61. An appliance NOT used for correction of anterior cross bite is :
- (A) Composite plane
  - (B) Inclined plane
  - (C) Reverse stainless steel crown
  - (D) Oral Screen
62. If lower second primary molar is lost before the eruption of lower first permanent molar, the space maintenance should be done with :
- (A) Lingual arch
  - (B) Band and loop
  - (C) Distal shoe
  - (D) Band and bar
63. The purpose of Hotz modification of oral screen is to :
- (A) Perform tongue exercises
  - (B) Perform lip exercises
  - (C) Correct tongue thrusting habit
  - (D) Correct lip biting habit
64. The appliance given to treat lip biting habit is :
- (A) Habit breaking appliance
  - (B) Lip bumper
  - (C) Catlans appliance
  - (D) Hawleys appliance with posterior bite plane
65. The first response in case of syncope on the dental chair is :
- (A) Monitor vital signs
  - (B) Administer oxygen
  - (C) Administer adrenalin subcutaneous inj.
  - (D) Position the patient in supine position with legs elevated

66. All of these are deciduous molar relations, except :
- (A) End on
  - (B) Mesial step
  - (C) Flush terminal plane
  - (D) Distal step
67. An example for caloric non-cariogenic sweetener :
- (A) Saccharin
  - (B) Xylitol
  - (C) Aspartame
  - (D) Fructose
68. A contraindication for Atraumatic Restorative Technique is :
- (A) Presence of occlusal caries on primary molars
  - (B) A pre-cooperative child who does not accept airtor
  - (C) Treatment is done in an area where there is no proper power supply
  - (D) Cavity is inaccessible to hand instruments
69. The time required for an erupting premolar to move through 1 mm of alveolar bone as measured in a bitewing radiograph is :
- (A) 2 weeks
  - (B) 1 week
  - (C) 1 month
  - (D) 4 months
70. Tooth brushing should begin :
- (A) As soon as the first primary teeth erupt
  - (B) As soon as the first permanent teeth erupt
  - (C) At 3 years of age
  - (D) At 6 years of age
71. Upper left second deciduous molar is numbered under FDI system as :
- (A) 15
  - (B) E
  - (C) 55
  - (D) 65

72. Class II relationship of canines is when :

- (A) Mesial cuspal slope of upper overlaps the distal cuspal slope of lower
- (B) Distal cuspal slope of upper overlaps the mesial cuspal slope of lower
- (C) Mesial cuspal slope of lower overlaps the distal cuspal slope of upper
- (D) None of these

73. Heimlich maneuver is used in case of :

- (A) Asthmatic attack during dental treatment
- (B) Local anesthetic overdose
- (C) Airway obstruction due to foreign body
- (D) Syncope

74. The Colorado stains were first noticed by :

- (A) Frederick Williams
- (B) Trendly H. Dean
- (C) Frederick Mckay
- (D) J. M. Eager

75. Shoe Leather Survey was done during the period :

- (A) 1931-1936
- (B) 1927-1930
- (C) 1935-1940
- (D) 1935-1945

76. Which of the following statements about systemic fluorides is not true ?

- (A) Effective throughout life
- (B) Cost effective and cheaper
- (C) High concentration of fluorides are used
- (D) Maximum effect pre-eruptively

77. If the fluoride concentration of drinking water is  $< 0.3$  ppm, the dosage of fluoride supplement to be given to a 5 years old child with rampant caries is :

- (A) 0 mg/day
- (B) 0.25 mg/day
- (C) 0.5 mg/day
- (D) 1 mg/day

78. Which of the following is NOT a predisposing factor for gingivitis ?

- (A) Malocclusion
- (B) Mouth breathing habit
- (C) Eruption of teeth
- (D) Nail biting habit

79. One of the following is a feature of infantile swallowing pattern :

- (A) Obvious contraction of facial muscles especially buccinator
- (B) Tip of the tongue contacts the palatal rughae
- (C) Mandibular elevators are contracted
- (D) Mid portion of the tongue contacts the hard palate

80. One of the following appliances is NOT used in the management of thumb sucking habit :

- (A) Hay Rake appliance
- (B) Palatal crib appliance
- (C) Oral screen
- (D) Catlan's appliance

81. At what age does the lower permanent canine generally erupt ?

- (A) 6-7 years
- (B) 11-13 years
- (C) 9-10 years
- (D) 7-8 years

82. Ideal sequence of eruption of upper permanent teeth is :

- (A) 6-1-2-3-4-5-7
- (B) 6-1-2-4-5-3-7
- (C) 1-2-6-4-3-5-7
- (D) 1-2-3-4-5-6-7

83. The most common sequence of eruption for deciduous teeth in the lower arch is :

- (A) A-B-C-D-E
- (B) A-B-D-C-E
- (C) A-B-C-E-D
- (D) A-C-B-D-E

84. Key's triad does not include :

- (A) Microflora
- (B) Time
- (C) Substrate
- (D) Host

85. Precociously erupted teeth are :
- (A) Premature teeth
  - (B) Natal teeth
  - (C) Neonatal teeth
  - (D) All of these
86. Primate spaces are present in :
- (A) Distal to the upper primary canine
  - (B) Distal to the lower primary canine
  - (C) Distal to the upper permanent canine
  - (D) Distal to the lower permanent canine
87. How many years post eruption does it take for the root of a permanent tooth to complete its development ?
- (A) 1 year
  - (B) 2-3 years
  - (C) 6 months – 1 year
  - (D) 5 years
88. Leeway space of Nance aids in :
- (A) Early mesial shift
  - (B) Late mesial shift
  - (C) Correction of Ugly duckling stage
  - (D) Correction of deep bite
89. Decreased facial height can be seen in children with :
- (A) Class II Div 2 malocclusion
  - (B) Long face syndrom
  - (C) Skeletal open bite
  - (D) Class I malocclusion
90. Deep mentolabial sulcus is seen in :
- (A) Class II Div I malocclusion
  - (B) Class III malocclusion
  - (C) Bimaxillary protrusion
  - (D) Normal occlusion
91. Which of the following can be a self-correcting malocclusion in children ?
- (A) Prognathic mandible
  - (B) Anterior cross bite
  - (C) Anterior deep bite
  - (D) Narrow maxillary arch
92. Reinforcement technique is based on :
- (A) Social learning
  - (B) Freudian psychoanalytical theory
  - (C) Skinner's theory
  - (D) Masters theory

93. During the first appointment of the 4 years old child following should be done except :
- (A) Establish general communication with the patient and parent
  - (B) Start restorative procedures
  - (C) Obtain background information of child
  - (D) Take radiographs
94. Addleston introduced the following technique :
- (A) Cognitive theory
  - (B) Hand over mouth technique
  - (C) Tell-show-do technique
  - (D) Desensitization technique
95. A drug which is not used to provide conscious sedation in a child is :
- (A) Nitrous Oxide
  - (B) Chloral hydrate
  - (C) Hydroxyzine
  - (D) Lincomycin
96. The principal microorganism implicated in the initiation of smooth surface caries is :
- (A) Lactobacillus
  - (B) Streptococcus mutans
  - (C) Streptococcus sanguis
  - (D) Streptococcus mitis
97. Mothers are likely to infect their infants if the salivary S. mutans level is greater than :
- (A)  $10^5$  CFU/ml
  - (B)  $10^7$  CFU/ml
  - (C) 1000 CFU/ml
  - (D) 10 CFU/ml
98. Chemo-parasitic theory was given by :
- (A) W. D. Miller
  - (B) Erdl
  - (C) Newbrun
  - (D) Robert Koch
99. Stoic behaviour is a type of behaviour in one of the following classification given by :
- (A) Wright
  - (B) Lampshire
  - (C) Erik-Erikson
  - (D) Frankl

100. Midazolam dose in children through i.m. route is :
- (A) 0.5 mg/kg
  - (B) 0.25 mg/kg
  - (C) 0.1 mg/kg
  - (D) 2.5 mg/kg
101. Period of embryo is :
- (A) Conception to 10 days
  - (B) 2 to 8 weeks
  - (C) 8 to 40 weeks
  - (D) 40 weeks to 9 months
102. At birth the size of the mandible as compared to maxilla will be :
- (A) Smaller
  - (B) Bigger
  - (C) Same
  - (D) None of these
103. Growth spurt is seen at the age of :
- (A) Five months before birth
  - (B) Five months after birth
  - (C) Just before birth
  - (D) Just after birth
104. Hand Over Mouth Exercise (HOME) is contraindicated in children below the age of :
- (A) 10 years
  - (B) 13 years
  - (C) 3 years
  - (D) 6 years
105. According to the Cognitive theory by Jean Piaget, an 8-years-old child will be in :
- (A) Sensorimotor stage
  - (B) Pre-operational stage
  - (C) Concrete operation stage
  - (D) Formal operation stage
106. Types of capsular matrices are :
- (A) Functional, periosteal, orbital
  - (B) Orbital, functional, orofacial
  - (C) Neurocranial, orbital, orofacial
  - (D) Orofacial, periosteal, orbital
107. Amount of cranial growth completed at birth compared to adult size :
- (A) 25-30%
  - (B) 40-45%
  - (C) 55-60%
  - (D) 75-80%

108. Plexus of Raschow which is present below the odontoblastic layer in the pulp-dentin complex consists of:

- (A) Myelinated A-delta fibres
- (B) Unmyelinated A-delta fibres
- (C) Myelinated C fibres
- (D) Unmyelinated C fibres

109. Pulpal pain response is :

- (A) Dull and throbbing when carried by myelinated C fibres
- (B) Dull and throbbing when carried by unmyelinated C fibres
- (C) Quick and sharp when carried by unmyelinated C fibres
- (D) Quick and sharp when carried by myelinated C fibres

110. When pulpotomy is done using LASERS, the type of pulpotomy would be :

- (A) Vital
- (B) Mortal
- (C) Regeneration
- (D) Non vital

111. An example of a material used for preservation pulpotomy is :

- (A) Formocresol
- (B) Beechwood cresol
- (C) Bone morphogenic protein
- (D) Ferric sulphate

112. Direct pulp capping is recommended after mechanical exposure of the pulp upto the size of :

- (A) 1 mm
- (B) 2 mm
- (C) 5 mm
- (D) Not recommended after mechanical exposure

113. For treatment of recurrent aphthous ulcers, application of LASERS in defocused mode relieves pain by:

- (A) Removal of exposed nerve endings
- (B) Secondary intension
- (C) Ablation of tissue
- (D) Resection of tissue

114. According to American Society of Anesthesiologists' classification, ASA II means :

- (A) Patients with mild systemic disease
- (B) Patients with incapacitating systemic disease that is a constant threat to life
- (C) Patient with severe systemic disease
- (D) Moribund patient not expected to survive 24 hrs without operation

115. The type of LASER used for cavity preparation is :

- (A) Er : YAG LASER
- (B) Nd : YAG LASER
- (C) Diode LASER
- (D) CO<sub>2</sub> LASER

116. A child patient has a white patchy lesion that is easily scrapped off, leaving an erythematous or bleeding area. He should be prescribed :

- (A) Metronidazole
- (B) Acyclovir
- (C) Ketoconazole
- (D) Chlorhexidine

117. During MTA pulpotomy, the material should be placed to a thickness of :

- (A) 4-6 mm
- (B) 2-3 mm
- (C) 0.5-1 mm
- (D) 1-1.5 mm

118. All of the following are the indications for indirect pulp capping, EXCEPT :

- (A) Deep caries
- (B) Restorable tooth
- (C) Reversible pulpitis
- (D) Signs of furcation involvement

119. In a tooth with deep proximal caries the location of pulp exposure has the following implication :

- (A) Pulp tissue coronal to the exposure undergoes necrosis
- (B) Pulp tissue cervical to the exposure undergoes necrosis
- (C) Both pulp tissue coronal and cervical to the exposure undergoes necrosis
- (D) Location of pulp exposure has no impact on prognosis

120. A technique of stainless steel crown placement without tooth preparation is called :

- (A) Schwendicke technique
- (B) Hall technique
- (C) Innes technique
- (D) Mathewson technique

121. A three years old girl has sixteen decayed teeth, some of them being deep carious lesion. She is also suffering from congenital heart disease. She lives at least 80 km away from your dental clinic. The best way of behaviour management would be to use :

- (A)  $N_2O-O_2$  analgesia
- (B) General anesthesia
- (C) Sedation using i.v. route
- (D)  $N_2O-O_2$  analgesia with physical restraints

122. An example of constituent of saliva which has antibacterial activity is :

- (A) Statherin
- (B) Proline rich protein
- (C) Lactoferrin
- (D) Amylopectidase

123. Which of the following statements regarding mutans streptococci is NOT true ?

- (A) Mutans streptococci require non shedding surface to colonize
- (B) There is no correlation between mutans streptococci count of mothers and infants
- (C) The synthesis of glucans by mutans streptococci requires sucrose
- (D) Age at which mutans streptococci is first acquired influences the caries risk

124. A component of bovine milk which helps in reducing demineralization of tooth is :

- (A) Lactose
- (B) Casien
- (C) Phosphate buffer
- (D) Calcium phosphate

125. Critical pH is the pH at which :

- (A) Saliva is saturated with calcium and phosphate
- (B) Saliva ceases to be supersaturated with calcium and phosphate
- (C) Salivary buffers act
- (D) Salivary flow increases

126. The caries susceptibility of primary tooth surfaces in descending order is :

- (A) Incisor interproximal, occlusal molar, molar interproximal
- (B) Molar interproximal, occlusal molar, incisor interproximal
- (C) Incisor interproximal, molar interproximal, occlusal molar
- (D) Occlusal molar, molar interproximal, incisor interproximal

127. The caries activity test which is based on the ability of salivary microorganisms to form organic acids from carbohydrate medium is :

- (A) Strip mutans test
- (B) Dentocult LB method
- (C) Snyder test
- (D) Reductase test

128. An ideal resin sealant should not have :

- (A) High wear resistance
- (B) High water sorption
- (C) High penetration
- (D) Low co-efficient of thermal expansion

129. When distinct hollowing prism centres with relatively intact peripheral region of hydroxyapatite crystals are observed under a polar microscope, the type of etching pattern is :

- (A) Type I
- (B) Type II
- (C) Type III
- (D) Type IV

130. Calcium pyrophosphate in the dentifrice is used as :

- (A) Detergent
- (B) Abrasive
- (C) Humectant
- (D) Binder

131. According to Mount's classification Site I, Size 3 cavity is :

- (A) Cavity on the occlusal surface of posterior teeth which is moderate in size
- (B) Cavity on the occlusal surface of posterior teeth with a split at the base of the cusp
- (C) Cavity on the proximal surface of posterior teeth which is small in size
- (D) Cavity on the proximal surface of posterior teeth which is moderate in size

132. Choking off effect in case of sodium fluoride occurs due to :

- (A) Formation of fluorapatite which prevents further entry of fluoride
- (B) Formation of calcium fluoride which prevents further entry of fluoride
- (C) Continuous application of fluoride for 4 minutes
- (D) If the solution is left to dry for 2 minutes

133. The amount of available fluoride in Fluoroprotector is :

- (A) 1,000 ppm
- (B) 7,000 ppm
- (C) 9,000 ppm
- (D) 22,600 ppm

134. The certainly lethal dose of fluoride is :

- (A) 8-16 mg/kg body weight
- (B) 16-32 mg/kg body weight
- (C) 32-64 mg/kg body weight
- (D) 60-84 mg/kg body weight

135. According to Dean's index, if a tooth shows discrete pitting with brown stains, the rating is :

- (A) 1
- (B) 2
- (C) 3
- (D) 4

136. 'Matching' is done in :

- (A) Cohort study
- (B) Case control study
- (C) Randomised controlled trials
- (D) Longitudinal study

137. A descriptive study helps in :

- (A) Formulation of etiological hypothesis
- (B) Obtaining the relative risk
- (C) Selection of controls
- (D) Gives causal association

138. The six surfaces examined for OHI-S index are :

- (A) Buccal surfaces of 16 and 26, labial surfaces of 21 and 41, lingual surfaces of 35 and 46
- (B) Buccal surfaces of 36 and 46, labial surfaces of 11 and 31, lingual surfaces of 16 and 26
- (C) Buccal surfaces of 16 and 26, labial surfaces of 11 and 31, lingual surfaces of 36 and 46
- (D) Buccal surfaces of 16 and 26, lingual surfaces of 31 and 21, lingual surfaces of 36 and 46

139. Plaque Index was given by :
- (A) Sillness and Loe in 1964
  - (B) Massler and Schour in 1944
  - (C) Loe and Sillness in 1963
  - (D) Greene and Vermillion in 1964
140. If a null hypothesis is rejected when it is actually true, it is :
- (A) Type I error
  - (B) Type II error
  - (C) Standard error
  - (D) Standard deviation
141. The choice of test statistic depends on all the following factors EXCEPT :
- (A) Type of data
  - (B) Sample size
  - (C) Distribution of the variable in the sample
  - (D) Level of significance
142. The appropriate age to begin weaning is :
- (A) 2-3 months
  - (B) 5-7 months
  - (C) 9-12 months
  - (D) 2 years
143. An eight months old infant presents with swollen gumpads in the lower anterior region. The elevated area is bluish purple in colour. The most probable diagnosis is :
- (A) Hemangioma
  - (B) Eruption hematoma
  - (C) Eruption Sequestrum
  - (D) Dental lamina cyst
144. The correct sequence of stages in the adoption of a new idea by an individual is :
- (A) Unawareness, interest, awareness, evaluation, trial, adoption
  - (B) Unawareness, interest, awareness, evaluation, trial, adoption,
  - (C) Unawareness, interest, trial, awareness, evaluation, adoption,
  - (D) Unawareness, awareness, interest, evaluation, trial, adoption

145. The window of infectivity of dental caries for deciduous dentition is :

- (A) 0-3 months
- (B) 3-6 months
- (C) 7-24 months
- (D) 24-36 months

146. The dose of xylitol which can have a laxative effect is :

- (A) 6.18 g/day
- (B) 2.08 g/day
- (C) 3.4 g/day
- (D) 1.68 g/day

147. The optimum way of treating white spot lesions is :

- (A) Restoring with glass ionomer cement
- (B) Pit and fissure sealant
- (C) Preventive resin restoration
- (D) Application of fluoride varnish

148. The most appropriate material for restoration of a tunnel preparation is :

- (A) Resin composite
- (B) Silver amalgam
- (C) Glass ionomer cement
- (D) Zinc oxide eugenol

149. In enamel caries the advancing front of the lesion is :

- (A) Translucent zone
- (B) Body of the lesion
- (C) Dark zone
- (D) Surface zone

150. Eburnation of dentin is seen in :

- (A) Radiation caries
- (B) Occult caries
- (C) Arrested caries
- (D) Secondary caries

151. Amino acids used in Carisolv system are :

- (A) Lysine, leucine, glutamic acid
- (B) Amino butyric acid, lysine, leucine
- (C) Amino butyric acid, glutamic acid, lysine
- (D) Leucine, isoleucine, glutamic acid

152. An example for non-cariogenic food item is :

- (A) Cheese
- (B) Raisins
- (C) Orange juice
- (D) Dates

153. Beveling is not done at the gingivocavosurface in class II cavities of primary molars because :

- (A) The width of the gingival seat is small
- (B) The enamel rods at the gingival third are directed occlusally
- (C) The thickness of the enamel and dentin layer is less
- (D) There is a prominent cervical constriction

154. If the glass in the glass ionomer cement powder is fused with silver particles it results in :

- (A) Silver alloy admix
- (B) Cermet
- (C) Ceromer
- (D) High strength glass ionomer

155. The amount of copper in high copper alloy is :

- (A) < 6%
- (B) > 6%
- (C) > 16%
- (D) > 0.6%

156. The factor that least contributes to the retention of the stainless steel crown :

- (A) Undercut in the cervical area of the tooth

(B) Almost parallel proximal surfaces in tooth preparation

(C) Luting agent used for cementation

(D) Crimping of the crown

157. During placement of stainless steel crowns on adjacent teeth the operator should :

(A) Break the contact between the teeth to produce 1.5 mm space at the gingival level

(B) Finish preparation and cementation of one crown first and then proceed to another

(C) Under reduce both the teeth occlusally

(D) Reduce buccal and lingual surfaces of both the teeth during tooth preparation

158. All are the indications for full coverage restorations of primary incisors except :

(A) Large interproximal lesions

(B) Small interproximal lesions

(C) Small interproximal lesions with cervical lesions

(D) Incisors that received pulp therapy

159. Resin Strip crowns are contra-  
indicated if :

- (A) Esthetics is of great concern
- (B) Gingival hemorrhage is not controllable
- (C) The tooth has Class III cavities on both interproximal surfaces
- (D) Child is not highly prone to trauma

160. Pulse oximetry is used for measuring :

- (A) Venous O<sub>2</sub> saturation in blood
- (B) Arterial O<sub>2</sub> saturation in blood
- (C) Oxygen content in RBCs
- (D) Oxygen saturation in heart blood vessels

161. The elimination half life of chloral hydrate is :

- (A) 3 hours
- (B) 24 hours
- (C) 8 hours
- (D) 12 hours

162. Titration of the drug to obtain the desired effect can be done in :

- (A) Oral route
- (B) Subcutaneous route
- (C) Intravenous route
- (D) Intramuscular route

163. The material which is contra-  
indicated for restoration of Class II  
cavity in primary molars :

- (A) Resin modified glass ionomer
- (B) Conventional Type II glass ionomer
- (C) Compomer
- (D) Resin Composite

164. One of the following is not the cause  
of failure of Class II amalgam  
restorations in primary molars :

- (A) Widened contact areas make narrow box difficult to achieve
- (B) Thin enamel in proximal walls leading to cracking of tooth structure
- (C) Considerable wear of primary teeth under occlusal stresses
- (D) Failure to give occlusal dove tail

165. Timed extraction of primary teeth and ultimately selected permanent teeth to relieve severe crowding is :

- (A) Balanced extraction
- (B) Guidance of eruption
- (C) Space supervision
- (D) Compensatory extraction

166. One of the following statements about space supervision is false :

- (A) Should begin when one third of the root of canine is formed
- (B) The desired eruption sequence in mandible is cuspid, first premolar, second premolar
- (C) Late mesial shift of the permanent molar is desirable
- (D) Eruption of mandibular teeth ahead of maxillary teeth is desirable

167. When there is premature loss of maxillary second molar, then the first permanent molar shows mesial tipping and :

- (A) Prominence of mesiobuccal cusp occlusally
- (B) Rotation of the crown
- (C) Lingual tipping
- (D) None of these

168. A 12 years old child has a labially erupting upper canine on the right side. The probable cause is :

- (A) Arch length tooth material discrepancy

(B) Right first primary molar had a large Class II cavity in mixed dentition period

(C) Right first primary molar was extracted at the age of nine years

(D) Both (A) and (B)

169. A child with adenoid facies has the following features :

(A) Long narrow face, Labial flaring of upper incisors, anterior deep bite

(B) Anterior deep bite, narrow maxillary arch, mouth breathing

(C) Long narrow face, narrow maxillary arch, labial flaring of incisors

(D) Short flaccid upper lip, mesoprosopic face, labial flaring of incisors

170. Among the following habit, the worst prognosis would be for :

(A) Simple tongue thrust

(B) Complex tongue thrust

(C) Retained infantile swallow

(D) Simple tongue thrust with thumb sucking habit

171. A 3 years old child has lost right primary maxillary central incisor due to trauma. It is necessary to give space maintainer :

- (A) To restore esthetics
- (B) To restore esthetics and prevent drifting of the adjacent teeth
- (C) Only if adjacent teeth have dental caries
- (D) Both (B) and (C)

172. An example for a non-pressure habit is :

- (A) Pencil biting
- (B) Mouth breathing
- (C) Thumb sucking
- (D) Tongue thrusting

173. An indication for orthodontic treatment during primary dentition is :

- (A) Proclined upper incisors
- (B) Posterior cross bite
- (C) Anterior deep bite
- (D) Lower anterior crowding

174. One of the following is not a cause for conditioned gingival enlargement :

- (A) Vitamin C deficiency
- (B) Hormonal imbalance
- (C) Drugs
- (D) Malocclusion

175. If a patient has posterior cross bite with midlines not together in occlusion then it should be corrected using :

- (A) Bionator
- (B) Hyrax rapid palatal expander
- (C) Quad helix
- (D) Activator

176. The interdental papillary areas which is keratinized in primary dentition is called :

- (A) Col
- (B) Interdental clefts
- (C) Retrocuspid papilla
- (D) Stillman's clefts

177. If midline diastema is due to high frenal attachment the correct method of treatment is :

- (A) Correct the midline diastema only after all the permanent teeth have erupted
- (B) Frenectomy followed by orthodontic correction of diastema
- (C) Orthodontic closure of diastema should be commenced before frenectomy
- (D) Removal of the high frenal attachment by frenectomy spontaneously corrects the diastema

178. One of the following statements is FALSE regarding thixotropic gels :

- (A) They have a variable viscosity under pressure
- (B) Under stress, the gel retains its viscosity
- (C) Biting forces should be applied during application of thixotropic gel
- (D) Due to its thixotropic property it remains in the tray and does not run down the patient's throat

179. Professional fluoride application is most effective in :

- (A) High caries risk individuals
- (B) Low caries risk individuals
- (C) As a tool in preventive public health programme
- (D) Prevention of pit and fissure caries

180. APF gel should not be used in patient's with porcelain restoration because :

- (A) It contains phosphoric acid
- (B) It contains hydrofluoric acid
- (C) It has high fluoride content
- (D) None of these

181. According to ADA, a smear of rice grain size equivalent amount of fluoride dentifrice is recommended for the following age group :

- (A) < 2 years
- (B) 4-6 years
- (C) 6-10 years
- (D) > 10 years

182. The normal pH of saliva is :

- (A) 5.5
- (B) 7.5
- (C) 9.5
- (D) 10.5

183. Scrofula is seen in :

- (A) Leprosy
- (B) Tuberculosis
- (C) Syphilis
- (D) Actinomycosis

184. The enzyme present in saliva which oxidizes thiocyanate ions in the presence of hydrogen peroxide which in turn inhibits bacterial enzymes is :

- (A) Lysozyme
- (B) Amylase
- (C) Lactoperoxidase
- (D) Enolase

185. The component in saliva which binds to calcium and inhibits formation of hydroxyapatite is :

- (A) Statherin
- (B) Mucin
- (C) Lactoferrin
- (D) Salivary agglutinins

186. The most important buffer system in saliva is :

- (A) Phosphate
- (B) Bicarbonate
- (C) Sulphate
- (D) Fluoride

187. Soon after the injection of local anesthetic by a nerve block technique, a swelling is seen around the area of injection. The probable cause is :

- (A) Trauma during injection
- (B) Hemorrhage
- (C) Allergic Reaction
- (D) All of these

188. An example for an ester type of local anesthetic is :

- (A) Mepivacaine
- (B) Articaine
- (C) Procaine
- (D) Dibucaine

189. Injection of local anesthetic with vasoconstrictor is contraindicated in a patient with :

- (A) Hypothyroidism
- (B) Hyperthyroidism
- (C) Hypoparathyroidism
- (D) Vitamin D deficiency

190. A patient reports the next day following extraction of 75, with multiple ulcers 1-2 mm in diameter in the lower left vestibular area. The probable diagnosis is :
- (A) Herpes Simplex
  - (B) Allergic Reaction to LA Solution
  - (C) Early sign of measles
  - (D) Trauma from the forceps
191. Delayed eruption is seen in :
- (A) Hypothyroidism
  - (B) Addison's disease
  - (C) Hyperpituitarism
  - (D) Acromegaly
192. One of the following predisposes the child to early childhood caries :
- (A) Chronic bronchitis
  - (B) Acute sinusitis
  - (C) Otitis media
  - (D) Tuberculosis
193. Impetigo is caused by :
- (A) Staphylococcus aureus
  - (B) Streptococcus sanguis
  - (C) Staphylococcus pyogens
  - (D) Varicella zoster
194. Hypocalcified Type I Hereditary dentinogenesis imperfecta is an example for :
- (A) Autosomal dominant inheritance
  - (B) Autosomal recessive inheritance
  - (C) X-linked dominant inheritance
  - (D) X-linked recessive
195. Ghost teeth are seen in :
- (A) Amelogenesis Imperfecta
  - (B) Dentinogenesis Imperfecta
  - (C) Regional Odontodysplasia
  - (D) Taurodontism
196. The clinical characteristics of Molar Incisor Hypomineralization are :
- (A) Hypoplastic enamel affecting all the primary and permanent teeth
  - (B) Posteruptive breakdown of all the affected teeth
  - (C) Diffuse opacities on the labial surfaces of the incisors
  - (D) Affects only the permanent molars

197. The following are the smart properties of glass ionomer cement :

- (A) Fluoride release
- (B) Fluoride recharging
- (C) Coefficient of thermal expansion is similar to dentin
- (D) Chemical bonding to tooth structure

198. Which of the following primary teeth are usually first to be involved in Early childhood caries ?

- (A) Upper incisors
- (B) Lower incisors
- (C) Upper canines
- (D) Lower canines

199. If the occlusal surface of permanent first molar is given ICDAS (International Caries Detection and Assessment System) code of 1, the best choice of treatment is :

- (A) Reinforcement of oral hygiene measures
- (B) Fluoride gel application
- (C) Pit and fissure sealant application
- (D) Prophylactic odontotomy

200. Which of the following can be used as a scaffold during revascularisation procedure ?

- (A) Mineral trioxide aggregate
- (B) Biodentin
- (C) Platelet rich plasma
- (D) Collagen

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