

1. Optimum pressure which should be used is
    - a) 30 to 35 gms ./ sq.cm
    - b) 20 to 26 gms ./ sq.cm
    - c) 15 to 20 gms ./ sq.cm
    - d) 26 to 36 gms ./ sq.cm
  
  2. Coating of bacteria particles with host proteins to facilitate Phagocytosis is known as
    - a) Chemotaxis
    - b) Chemokine
    - c) Opsonization
    - d) Membrane attack complex
  
  3. 'Hot Potato' voice is characteristically seen in
    - a) Pterygomandibular space infection
    - b) Retropharyngeal space infection
    - c) Pre tracheal space infection
    - d) Lateral pharyngeal space infection
  
  4. Facial vein communicates with cavernous sinus through
    - a) Posterior facial vein
    - b) Common facial vein
    - c) Deep facial vein
    - d) Posterior auricular vein
  
  5. Non-caseating granulomas are characteristic of
    - a) Tuberculosis
    - b) Syphilis
    - c) Sarcoidosis
    - d) Actinomycosis
  
  6. The most important factor associated with causation of head and neck carcinomas is
    - a) Intravenous drug abuse
    - b) Exposure to nickel
    - c) History of syphilis
    - d) Tobacco use
  
  7. Most common oral change in patients on Calcium channel blockers is
    - a) Dry mouth
    - b) Gingival enlargement
    - c) Oral ulceration
    - d) Increased calculus formation
-

D

8. An upper anterior inclined plane provides

- a) Intra maxillary anchorage
- b) Reinforced anchorage
- c) Absolute anchorage
- d) Reciprocal anchorage

9. The head tilt procedure while dealing with an unconscious patient in dental chair is done to ensure

- a) Patent airway
- b) Blood circulation to the brain
- c) To clear the foreign body obstacle
- d) To relieve spasm of respiratory muscles

10. Which of the following statements regarding pulp stones are true

- a) Pulp stones are due to Metastatic calcification
- b) Pulp stones are due to dystrophic calcification
- c) Pulp stones are usually of true denticles type
- d) Pulp stones are usually embedded in dentine

11. Which is the best choice of heat source for soldering, from the following fuel gases

- a) Propane
- b) Acetylene
- c) Natural gas
- d) Hydrogen

12. In the blood bank, platelets are stored at

- a) 18° C for 1 year
- b) 20to24° C for 35 days
- c) 20 to 24° C for 3 to 5 days
- d) 2 to 4° C for 35 days

13. Local anesthetics block nerve conduction by:

- a) Depolarising the nerve membrane reducing threshold potential
- b) Decreasing the membrane permeability to Na<sup>+</sup> ions there by stabilizing nerve membrane
- c) Increasing the membrane permeability to K<sup>+</sup> ions and by depolarising nerve membrane
- d) None of the above

14. The dose of a drug required to produce a specified effect in 50% of the population is

- a) LD<sub>50</sub>
- b) TD<sub>50</sub>
- c) MD<sub>50</sub>
- d) Ed<sub>50</sub>

15. Torsional force is

- a) compression
- b) tensile force
- c) shear
- d) transverse bending force

16. The length of the sprue former should be adjusted for gypsum bonded investment so that the top of the wax pattern is

- a) Within 6mm of the open end of the ring
- b) Within 10mm of the open end of the ring
- c) Within the 1mm of the open end of the ring
- d) Within 2mm of opened of the ring

17. Atwoods classification Order IV corresponds to

- a) a knife edged ridge
- b) High well rounded
- c) low well rounded
- d) depressed

18. True Anodontia is considered to be a failure of

- a) Initiation
- b) Proliferation
- c) Histodifferentiation
- d) Morphodifferentiation

19. Effective evaluation refers to

- a) whether programme results meet predetermined objectives
- b) the long term out come of the programme
- c) assess the extent to which programme implementation complies with the program plan
- d) whether programme benefits exceeds the cost incurred

20. Second molars that get locked under the distal cusps of First molars during eruption are best

- a) Extracted and Third molars allowed to erupt
- b) Autogenously transplanted
- c) Disimpacted with "disimpaction springs"
- d) Guided with distal shoe space maintainer

21. Thyroid storm can be treated by all the following drugs **EXCEPT**

- a) Propylthiouracil
- b) Dexamethasone
- c) propranolol
- d) Aspirin

22. Hypokalemia is likely to be seen in

- a) Insulin therapy
- b) Addison's disease
- c) Starvation ketosis
- d) Hemolytic anemias

23. Which one of the following developmental stages of Plasmodium is transmitted from humans to Anopheles mosquito?

- a) Sporozoite
- b) Gametocyte
- c) Merozoite
- d) Hypnozoite

24. Which among the following antibiotics should be avoided in pregnancy?

- a) Erythromycin
- b) Tetracycline
- c) Cephalexin
- d) Amoxicillin

25. Increases in steroid hormones are associated with significant increases in

- a) Actinomyces viscosus
- b) Prevotella intermedia
- c) Streptococcus sanguis
- d) Campylobacter rectus

26. What is the chief disadvantage of a nonfunctional fixed space maintainer?

- a) Prevent lateral jaw growth
- b) Difficult to fabricate
- c) Difficulty in maintaining proper oral hygiene
- d) Continued eruption of opposing tooth

27. All of the following are random sampling methods **EXCEPT**

- a) Simple random
- b) Cluster sampling
- c) Stratified random
- d) Quota sampling

28. Junctional epithelium

- a) Lined by orthokeratinised stratified squamous epithelium
- b) Derived from reduced enamel epithelium
- c) Has rete ridges
- d) Surface cells of junctional epithelium provide attachment of gingiva to tooth tissue by desmosomes

29. Pins effectively increase

- a) Stability of the restoration
- b) Support of the restoration
- c) Torque of the restoration
- d) Retention of the restoration

30. Ghon complex of the lung usually

- a) undergoes cavitation
- b) undergoes calcification
- c) progresses to tuberculous pneumonia
- d) progresses to miliary tuberculosis

31. Most fungi of medical importance belong to

- a) Zygomycetes
- b) Ascomycetes
- c) Basidiomycetes
- d) Deuteromycetes

32. Injury to which nerve causes non-closure of eyelids, sagging of mouth and dribbling of saliva

- a) maxillary nerve
- b) oculomotor nerve
- c) facial nerve
- d) ophthalmic nerve

33. A relatively mobile component of the electron transporting respiratory chain is

- a) Flavoprotein
- b) Cytochrome c1
- c) Ubiquinone
- d) Cytochrome a

34. Surgical approaches for open thymectomy include all **EXCEPT**

- a) Transcervical thymectomy
- b) Median Sternotomy
- c) Thoraco abdominal incision
- d) Partial median sternotomy

35. Hilton's method is used for

- a) Drainage of space infection
- b) Drainage of cystic lesions
- c) Drainage of abscess
- d) Drainage of vascular lesions

D

36. Which of the following is known to arise from the sunlight

- a) Basal cell carcinoma
- b) Ewing's sarcoma
- c) Squamous cell carcinoma of the lip
- d) Verruca vulgaris.

37. Length of junctional epithelium ranges from

- a) 0.10 to 0.20 mm
- b) 0.25 to 1.35 mm
- c) 1.35 to 1.75 mm
- d) 1.75 to 2.00 mm

38. The mechanism of action of afp is via following reaction products

- a) Fluoridated hydroxyapatite
- b) Stannous trifluorophosphate
- c) Dicalcium phosphate dihydrate (DCPD)
- d) DCPD + calcium fluoride + fluorapatite

39. Which of the following is used to measure pain intensity?

- a) Visual Analog Scale
- b) Visual Aesthesia Score
- c) Verifiable Assessment of Soreness
- d) Visual Assessment of Soreness

40. Bias arising because of different rates of admission to hospitals for people with different diseases

- a) Confounding bias.
- b) Berksonian bias.
- c) Information bias.
- d) Selection bias.

41. Syndrome associated with increased risk of leukemia is

- a) Plummer Vinson syndrome
- b) Klinefelter syndrome
- c) Sturge weber syndrome
- d) Multiple hamartoma syndrome

42. Failure of descent of thyroid analage can be seen in the tongue

- a) In anterior 2/3 of dorsal aspect
- b) In posterior 1/3 of dorsal aspect
- c) Near the base of tongue close to foramen caecum
- d) In anterior 2/3 of inferior surface

B

43. Lymph from the teeth drains into all of the following nodes EXCEPT

- a) Sub mandibular nodes.
- b) Deep cervical nodes.
- c) Retro pharyngeal nodes.
- d) Sub mental nodes.

44. Desorbtion is a term which is used to describe

- a) Strain hardening
- b) Process of removing the absorbed impurities
- c) Recrystallization
- d) Grain growth

45. Sodium metabisulfite used in LA solution acts as

- a) Anti-reducing agent for LA agent
- b) Anti-oxidant for LA agent
- c) Anti-reducing agent for vasoconstrictor
- d) Anti-oxidant for vasoconstrictor

46. When one primary canine is lost prematurely, it is imperative to maintain the

- a) Midline
- b) Opposing canine
- c) Vertical dimension
- d) Canine guidance

47. What is the amount of time required by erupting premolar to move through 1 mm of bone as measured on a bite-wing radiograph?

- a) 3-4 months
- b) 4-5 months
- c) 5-6 months
- d) 6-7 months

48. The basic tools of measurement in epidemiology are

- a) Place, person, time
- b) Determinants, frequency, distribution of disease
- c) Rate, ratio, proportion
- d) Agent, host and environment

49. Eruption fails in this bone disease, as there is no bone resorption

- a) Primary hyperparathyroidism
- b) Phantom bone disease
- c) Paget's disease
- d) Osteopetrosis

50. Condensation reaction of silicones occur in presence of

- a) lead-di-oxide
- b) titanium di-oxide
- c) stannous octate
- d) platinum salt

51. Which of the following agents is used to prevent the formation of deleterious oxides on gold foil?

- a) Methane
- b) Ammonia
- c) Hydrogen peroxide
- d) Carbon monoxide

52. The procedure which slowly develops behavior by reinforcing successive approximations of the desired behavior until the desired behavior comes to be is termed as

- a) Behavior Management
- b) Behavior Modification
- c) Behavior Shaping
- d) Behavior Control

53. Tooth loss that causes the patient to bite in an abnormal relation of maxilla to mandible, in order to obtain better function during mastication is termed

- a) Convenience bite
- b) Dramatic bite
- c) Temporary bite
- d) Squashed bite

54. Hanging drop sign is best seen in

- a) Water's projection
- b) Orthopantomogram
- c) Submentovertex
- d) Upper occlusal view

55. The half life of plasma Albumin is approximately

- a) 7 days
- b) 20 days
- c) 60 days
- d) 90 days



56. The dicrotic notch on the aortic pressure curve is caused by

- a) Closure of the pulmonary valve
- b) Rapid filling of the left ventricle
- c) Closure of the aortic valve
- d) Contraction of the atria

57. A 20 Year Male complains of recurrent attacks of sore throat since 2 years. The total leucocyte count was 1000/ul. A differential count revealed severe neutropenia. The diagnosis is

- a) Subleukemic leukemia
- b) Infectious mononucleosis
- c) Agranulocytosis
- d) Leukoerythroblastic anemia

58. While analyzing radiographic images of a lesion, the radiologist tries to match the present image with an image in a favorite text book. This method is known as

- a) Mix and match method
- b) Aunt Minnie method
- c) Text book correlation method
- d) Kvaal's method

59. Which of the following infections can produce unilateral facial pain

- a) Herpes simplex
- b) Herpes Zoster
- c) Chicken pox
- d) Herpangina

60. Inferior alveolar nerve and vessels course along.

- a) Mandibular cana
- b) Myelohyoid groove
- c) Sublingual fossa
- d) Submandibular fossa

61. Dimension stability of hydrocollids may be achieved by

- a) optimizing w:p
- b) using cold water
- c) prolonged manipulation
- d) using humidor

D

62. 'Veracity' is

- a) Truthfulness
- b) Beneficence
- c) Autonomy
- d) Non maleficence

63. Hb1AC or Glycohemoglobin level of >9% indicates

- a) Normal
- b) Mild Diabetes control
- c) Gestational Diabetes
- d) Poor Diabetes Control

64. On application of very light forces to teeth, the axis of rotation is located at

- a) At Alveolar crest
- b) At or close to Apex of root
- c) At middle of crown
- d) At Cementoenamel Junction

65. The attachment of the Actinomyces species to the tooth surface is facilitated by

- a) Fimbriae
- b) Cilia
- c) Flagella
- d) Pseudopodia

66. Hypoparathyroidism is seen in all of the following **EXCEPT**

- a) DiGeorge syndrome
- b) Chronic renal failure
- c) Wilsons disease
- d) Haemochromatosis

67. Mandibular fossa is a part of

- a) Mandible bone
- b) Maxilla bone
- c) Sphenoid bone
- d) Temporal bone

68. Which one of the following enteric organisms is anaerogenic and non motile ?

- a) Shigella sonnei
- b) Salmonella typhi
- c) Proteus mirabilis
- d) Klebsiella pneumonia

69. Which is more dangerous after a thyroidectomy resulting in acute respiratory distress
- a) damage to external laryngeal nerve
  - b) unilateral complete damage to recurrent laryngeal nerve
  - c) unilateral partial damage to recurrent laryngeal nerve
  - d) bilateral partial section of recurrent laryngeal nerve
70. The type of ultraviolet radiation(UV) that is known to induce skin cancer is
- a) UV - A
  - b) UV - B
  - c) UV - C
  - d) UV - D
71. Width of attached gingiva is narrower in
- a) Maxillary premolars
  - b) Maxillary incisor
  - c) Mandibular premolars
  - d) Mandibular incisor
72. The Fears that are produced by direct physical stimulation of the sense organs are
- a) Subjective Fears
  - b) Suggestive Fears
  - c) Objective Fears
  - d) Imitative Fears
73. The commonest reported oral malignancy in HIV infection is
- a) Squamous cell carcinoma
  - b) Verrucous carcinoma
  - c) multiple myeloma
  - d) Kaposi sarcoma
74. Dr. Taggart is associated with
- a) Discovery of Ceramics
  - b) Lost wax technique.
  - c) Acid etch technique
  - d) Bleaching procedures
75. Most often used thickness of the matrix band is
- a) 0.0015 cm
  - b) 0.0015 inch
  - c) 0.015 inch
  - d) 0.0028 mm
-

D

76. Benign tumor which shows metastasis

- a) Warthin's tumor
- b) Ameloblastoma
- c) Keratoacanthoma
- d) Neurofibroma

77. Characteristic thistle - tube - shaped appearance of pulp chambers of single rooted teeth are seen in

- a) Type I Dentinogenesis Imperfecta
- b) Type II Dentinogenesis Imperfecta
- c) Type II Dentine dysplasia
- d) Type I Dentine dysplasia

78. Rate of activation with slow expansion is

- a) 1 mm per day
- b) 1mm for 3 days
- c) 1 mm for a month
- d) 1mm per week

79. A fractured mandibular condyle is displaced by the action of

- a) Temporalis
- b) Masseter.
- c) Lateral pterygoid
- d) Medial pterygoid.

80. Following splenectomy in children, which one of the following is recommended?

- a) Hepatitis B vaccination
- b) Typhoid vaccination
- c) Pneumococcal vaccination
- d) Regular follow up

81. Posterior ethmoidal air sinus opens into

- a) superior meatus
- b) middle meatus
- c) inferior meatus
- d) spheno-ethmoidal recess

82. The vaccine currently used against Hepatitis B infection is

- a) Killed pooled serum
- b) Live attenuated
- c) Recombinant
- d) Synthetic vaccine

83. Specificity is

- a) Ability of a test to identify correctly all those who have the disease
- b) Ability of a test to identify correctly those who do not have the disease
- c) Diagnostic power of a test
- d) The amount of previously unrecognized disease that is diagnosed through screening

84. In the open position of the mandible, the interincisal distance in males is approximately

- a) 28mm
- b) 38mm
- c) 48mm
- d) 58mm

85. The following is not a Communicative management technique according to American Academy of Pediatric dentistry's Standards

- a) Voice Control
- b) Positive Reinforcement
- c) Physical Restraint
- d) Distraction

86. The main disadvantage of Florida probe system is

- a) Inconsistent probing force
- b) Recording errors
- c) Non reproducibility
- d) Lack of tactile sensitivity

87. Entry of Caldwell procedure is made through \_\_\_\_\_

- a) Incisive Fossa
- b) canine fossa
- c) molar prominence
- d) tuberosity

88. Slow ESR is usually seen in

- a) Active myocardial infarction
- b) Congestive heart failure
- c) Oral contraceptives
- d) Chronic infections

89. The file which has a non-cutting side is

- a) K-files
- b) Safety K-files
- c) Hedstrom files
- d) Safety Hedstrom files

D

90. All of the following canals open on the posterior wall of the pterygo palatine fossa EXCEPT

- a) Greater palatine canal.
- b) Foramen Rotundum.
- c) Pterygoid canal.
- d) Palatovaginal canal.

91. When a drug creates an effect that is unpredictable and unique it is termed as

- a) Side effect
- b) Toxicity effect
- c) Idiosyncratic effect
- d) Drug-on Drug effect

92. Fibrotomy to prevent Rotational relapse was advocated first by

- a) Edwards
- b) Peck and Peck
- c) Ashley Howes
- d) Carey

93. Human dose establishment study is the focus of this phase of clinical trial

- a) PHASE-II
- b) PHASE-III
- c) PHASE-I
- d) PHASE-IV

94. Which of the following agents of gas gangrene is capsulated ?

- a) Cl. septicum
- b) Cl. novyi
- c) Cl. perfringens
- d) Cl. histolyticum

95. Fiber group which prevent the extrusion of the tooth is

- a) Alveolar crest group
- b) Transseptal group
- c) Oblique group
- d) Horizontal group

96. Shingles of geniculate ganglion with ear eruption and facial paralysis is termed as

- a) Puetz – Jegher Syndrome
- b) Melkerson – Rosenthal syndrome
- c) Ramsay Hunt Syndrome
- d) Gardners Syndrome

B

97. The major purpose of randomization is

- a) Facilitate double blinding
- b) Help ensure the study subjects are representative of general population
- c) Ensure the groups are comparable to baseline characteristics
- d) Reduce selection bias in allocation to treatment

98. The cortical plates are thickest in the

- a) premolar and molar region of the maxilla on the buccal side
- b) premolar and molar region of the maxilla on the lingual side
- c) premolar and molar region of the mandible on the lingual side
- d) premolar and molar region of the mandible on the buccal side

99. Increased spatulation of gypsum products

- a) increase setting time
- b) decrease setting time
- c) does not interfere with setting time
- d) only produces more exothermic heat

100. The endodontic instrument number indicates the

- a) Tip diameter
- b) Length of the instrument
- c) Cutting length of the instrument
- d) Tip angle

101. The stabbing nature of pain in trigeminal neuralgia mimics pain caused by

- a) A cracked tooth
- b) Acute reversible pulpitis
- c) Acute irreversible pulpitis
- d) D. Acute apical periodontitis

102. Inorganic content of cementum is

- a) 45% to 50%
- b) 50% to 55%
- c) 55% to 60%
- d) 60% to 65%

103. Otomycosis is caused by

- a) Aspergillus niger
- b) Histoplasma capsulatum
- c) Rhinosporidium seeberi
- d) Cryptococcus neoformans

104. Mannose 6 phosphate containing freshly synthesized proteins are directed to

- a) nucleus
- b) lysosomes
- c) mitochondria
- d) golgi apparatus

105. Bell's Palsy is characterized by

- a) Bilateral involvement of the side of the face.
- b) Inability to whistle.
- c) No loss of muscular control
- d) Closing of the eyes.

106. Current recommendation for Systemic fluoride supplements for all children residing in areas where the water fluoride deficient until they reach the age

- a) 12
- b) 14
- c) 16
- d) 18

107. Xeroderma pigmentosum is characterised by

- a) Autosomal dominant inheritance
- b) Inability to repair sunlight induced damage to DNA
- c) Irregular accumulation of melanin in the basal cell layer
- d) Acanthosis of epithelium with elongation of rete ridges

108. The Resin bonded bridges have the advantages of

- a) Minimal tooth preparation
- b) Alignment correction
- c) Longevity
- d) Long span bridges

109. The gingival cavo surface bevel for a class II preparation to receive a cast gold inlay

- a) Results in a 30° metal that is burnishable
- b) Results in no benefits whatsoever
- c) Results in open margin if casting procedures are not accurate
- d) Results in difficulty in taking wax patterns.

110. In Fanconi Anemia there is a

- a) Deficiency of copper
- b) Mutation in DNA repair gene
- c) No increased risk of Sq cell cover
- d) Purely a nutritional disorder etiology



111. Tooth which is involved in the most common cause of oro antral communication is

- a) II premolar
- b) I premolar
- c) I molar
- d) II molar

112. Anti-D (Rh) immuno globulin is used for the prevention of:

- a) Paroxysmal haemoglobinuria
- b) Sickle cell disease
- c) Haemolytic disease of newborn
- d) Emphysema lungs

113. A 3 year old child presented with progressive anemia, jaundice & failure to thrive. O/E: Pallor, splenomegaly+. Peripheral smear showed normoblasts and small round intensely stained red cells. The likely diagnosis is

- a) Hereditary spherocytosis
- b) Thalassemia
- c) Sickle cell anemia
- d) Vitamin B12 deficiency anemia

114. All of the following statements are true for zinc oxide eugenol cements EXCEPT

- a) equal lengths of base paste and accelerator paste are mixed together until the mix has a uniform colour
- b) increase in temperature and humidity shorten the setting time
- c) the mix appears thick at the start of mixing but after 30 seconds of additional spatulation it becomes more fluid
- d) water accelerates but heat retards the setting of zinc oxide eugenol cements

115. Tip angle of endodontic hand instruments is

- a)  $65 \pm 15^\circ$
- b)  $75 \pm 15^\circ$
- c)  $85 \pm 15^\circ$
- d)  $95 \pm 15^\circ$

116. Secondary amyloidosis is seen most commonly in

- a) Actinomycosis
- b) Tuberculosis
- c) Rabies
- d) Secondary syphilis

117. Focal Epithelial hyperplasia caused by HPV / 3 and 32 is also termed

- a) Coudens disease
- b) Hecks disease
- c) Acanthosis migrans
- d) Kerato acanthoma

118. In the body, metabolism of 10 g of protein would produce approximately

- a) 1 Kcal
- b) 41 Kcal
- c) 410 Kcal
- d) 4100 Kcal

119. Ethics and planning approvals are taken in

- a) Public health practice
- b) Group practice
- c) Individual practice
- d) Solo practice

120. The fibers of periodontal ligament which maintain the neighbouring teeth in contact

- a) Horizontal fibers
- b) Oblique fibers
- c) Transeptal fibers
- d) Interradicular fibers

121. Mode of failure during dislodgement of prosthesis cemented with zinc polycarboxylate cement is usually seen at the

- a) cement tooth interface
- b) cement prosthesis interface
- c) cleavage through the cement layer
- d) fracture of tooth or prosthesis

122. Ludwig's angina is caused due to pus collection in

- a) submadibular fascial space
- b) paravertebral space
- c) retromandibular space
- d) parotid region

123. Stephans curve denotes the relationship between

- a) Sucrose intake and salivary PH
- b) Plaque PH and glucose rinse
- c) Plaque PH and salivary PH
- d) Salivary flow rate and buffering capacity

124. Which medium of storage for avulsed tooth is best for prolonged extra oral periods

- a) Hank's Balanced salt solution
- b) Milk
- c) Distilled water
- d) Saliva

125. Kussmaul's respiration occurs in response to

- a) Decrease in pH of blood
- b) Increase in pH of blood
- c) Obstructive pulmonary disease
- d) Carbon monoxide poisoning

126. An example of a preventive anti oxidant is

- a) Catalase
- b) Tocopherol
- c) Superoxide dismutase
- d) Urate

127. DiGeorge's syndrome is due to

- a) Congenital thymic aplasia
- b) Deficiency of complement factors
- c) Inborn error of metabolism
- d) Chromosomal anomaly

128. Hardness test used for elastic materials

- a) Brinnels hardness test
- b) Rockwells hardness test
- c) Vickers hardness test
- d) Knoop's hardness test

129. Bundle bone, due to its increased radiopacity is also called

- a) Lamina dura
- b) Lamina limitans
- c) Lamina lucida
- d) Lamina propria

130. Mutation in the oxidative enzymes ( peroxisomes) could lead to

- a) Zellweger's syndrome
- b) Gaucher's disease
- c) Epidermolysis bullosa
- d) Leber's neuropathy

131. Right anterior quadrant of the scalp is supplied by the following arteries EXCEPT

- a) Right supra orbital artery
- b) Right supra trochlear artery
- c) Right superficial temporal artery
- d) Right maxillary artery

132. The use of electro surgery facilitate impression making by

- a) Reopening the gingival sulcus
- b) Forcing the impression material
- c) Enlarging the gingival sulcus and control of hemorrhage
- d) Hemorrhage

133. Which among the following anti-HIV drugs is also used to treat viral hepatitis B?

- a) Enfuvirtide
- b) Lamivudine
- c) Efavirenz
- d) Ritonavir

134. The predominant cell in an 'Established Lesion' is

- a) PMNL
- b) T-Cell
- c) Macrophage
- d) Plasma cell

135. During the fabrication of band for band and loop space maintainer, where should be the band biter be placed for final positioning of the band ?

- a) Distolingual aspect of the maxillary teeth and distofacial aspect of the mandibular teeth
- b) Distofacial aspect of the maxillary teeth and mesiofacial aspect of the mandibular teeth
- c) Mesiolingual aspect of the maxillary teeth and distolingual aspect of the mandibular teeth
- d) Distofacial aspect of the maxillary teeth and distolingual aspect of the mandibular teeth

136. A biological experiment in which one compares the effects of two preparations by means of common biological response is known as

- a) Biodegradable
- b) Bio - experiment
- c) Bio - assay
- d) Bio - statement

137. The laminate impression technique utilizes a combination of 2 impression materials

- a) Light body & heavy body
- b) PVS & Polyether
- c) Polyether and polysulfide
- d) Alginate and Agar

138. The best fuel gas when used with oxygen is

- a) Hydrogen
- b) Natural gas
- c) Propane
- d) Acetylene

139. Which of the following organs has the most permeable capillaries ?

- a) Brain
- b) Posterior pituitary gland
- c) Liver
- d) Small intestine

140. HLA – B27 histocompatibility antigen is seen in

- a) Sjogren's disease
- b) Ankylosing spondilitis
- c) Felty's syndrome
- d) Scleroderma

141. For which of the following tissue systems Scammon's curve shows an 'S' shaped curve?

- a) Lymphoid Tissue
- b) Neural tissues
- c) Muscle & Bone tissues
- d) Genital tissues

142. Following test for judging the significance of difference between the means of two samples in case of small samples when population variance is NOT known

- a) Z – test
- b) T – test
- c) P – test
- d) F – test

143. Cyst arising from dental lamina

- a) Radicular cyst
- b) Paradental cyst
- c) Eruption cyst
- d) Glandular odontogenic cyst

144. Posterior mandible resorbs at a rate approximately ----- times faster than the anterior mandible

- a) 2 times
- b) 4 times
- c) 6 times
- d) 8 times

145. Gypsum bonded investments are used for

- a) Gold alloy's
- b) Bank metal alloy's
- c) Silver Palladium alloy's
- d) Porcelin casting

146. Space maintainers are usually not necessary in which region?

- a) Mandibular Posterior
- b) Mandibular Anterior
- c) Maxillary Posterior
- d) Maxillary Anterior

147. The activation of caspases is likely to lead to

- a) apoptotic cell death
- b) blood coagulation
- c) mitotic cell division
- d) G1 to S phase of cell cycle

148. Over heating of impression compound during softening will lead to reaching out of more soluble constituents such as

- a) Rosin
- b) Talc
- c) Waxes
- d) Stearlic acid

149. Ferrier double bow separators work on the principle of

- a) Wedge
- b) Pulley
- c) Traction
- d) Chemical means

150. All of the following drugs may be effective against methicillin-resistant *Staphylococcus aureus* (MRSA) **EXCEPT**

- a) Vancomycin
- b) Streptogramins
- c) Imipenem
- d) Linezolid

## Case Studies

For questions 151 to 154

**40-year-old male patient reported with the chief complaint of missing back teeth in the upper jaw, and desired replacement of the same. On clinical examination revealed missing 14,15,16,17,18,24,25,26,27 & 28.**

151. What is the Kennedy's classification for the given clinical scenario
- a) Class II
  - b) Class III
  - c) Class VI
  - d) Class I
152. Special design feature to be included in the above given clinical situation is
- a) Broad occlusal table
  - b) Minimal extension of denture base
  - c) Indirect retainer
  - d) Tube teeth.
153. One of the special impression methods to be employed for class-I situation is
- a) Closed mouth impression technique
  - b) Open mouth technique
  - c) Corrected cast technique
  - d) Mucocompressive technique
154. Major connector of choice for the above given clinical situation is
- a) Palatal bar
  - b) Palatal strap
  - c) Horse shoe connector
  - d) Complete palate

For questions 155 to 158 :

**A 58-year-old healthy man was evaluated for a toothache of 2 days' duration. He was treated with oral penicillin and an opiate analgesic and advised to have the affected teeth pulled. He returned less than 24 hours later reporting severe swelling in the neck, sore throat, chills, and chest pain. On examination, the floor of his oral cavity was indurated and woody, and he had marked tenderness and adenopathy throughout his neck.**

He had erythema spreading from his neck down over his anterior chest wall where his chest pain was localized.

155. The patient is suffering from
- a) Quinsy
  - b) Ludwig's angina
  - c) Acute parotitis
  - d) Angioneurotic edema
156. This condition is an emergency as it can lead to
- a) Difficulty in swallowing
  - b) Aspiration pneumonia
  - c) Air way obstruction
  - d) CSOM
157. The infection spreads to the
- a) submental, sublingual, and submandibular spaces
  - b) parapharyngeal spaces
  - c) nasopharyngeal area
  - d) sinusitis
158. The treatment of choice in such an acute condition would be
- a) Antibiotic and antifungal therapy
  - b) Removal of the offending tooth
  - c) Continue the penicillin in larger doses
  - d) Surgical drainage, antibiotic and intensive care

For questions 159 to 161:

A 12 year old boy reported with a class II div 1 malocclusion with proclined upper incisor and deep bite. Extraoral examination revealed a bilaterally symmetrical face, convex profile, potentially competent lip with normal incisor display during rest and smile. Cephalometric finding showed that the patient had a horizontal growth direction with CVMI stage III, increased overjet and normal lower incisor inclination.

159. What would be the appliance of choice for this patient
- a) Twin block
  - b) Activator
  - c) Bionator
  - d) Supermarionator
160. What is the right time to start deep bite correction with Twin Block Appliance
- a) 1 week
  - b) 2 week
  - c) 3week
  - d) 4 week



161. What is the best method to prevent proclination of lower incisors while treating a case with Twin Block appliance.

- a) Inter Proximal Reduction of lower incisors
- b) Guided eruption
- c) Incisor capping
- d) Lip pads

For questions 162 to 165 :

A 41-year-old man presented to the emergency department with a 9-month history of cough, exertional dyspnea, nocturnal diaphoresis, and weight loss of 10 kg. The physical examination revealed painless, massive, discrete, rubbery cervical, supraclavicular and axillary lymphadenopathy. Plain radiography of the chest showed bilateral hilar lymphadenopathy. The serum calcium level was elevated at 16.2 mg per deciliter; serum parathyroid hormone is within normal range.

162. The probable diagnosis of the above condition is

- a) Parathyroid carcinoma
- b) Hyperthyroidism
- c) Squamous-cell lung cancer
- d) Hodgkin's lymphoma

163. Urgent treatment to be instituted for him would be

- a) intravenous administration of normal saline and a bisphosphonate
- b) oxygen 6L/m by mask
- c) antibiotics and anti-inflammatory drugs
- d) anti tussive and chest physiotherapy

164. A diagnostic investigation was performed on him

- a) FNAC of the mediastinal lymph node
- b) Excisional biopsy of the axillary node
- c) CT chest and abdomen
- d) Core needle biopsy of the neck node

165. The treatment regimen consists of

- a) Chemotherapeutic regimen of doxorubicin, bleomycin, vinblastine, and dacarbazine.
- b) Anti tuberculosis regimen of INH, rifampicin, ethambutol and PAS
- c) Lineac radiation to the chest
- d) Radical thyroidectomy and neck node dissection

For questions 166 to 169 :

A 15year old boy reports with a rapidly growing swelling of the mandible with intermittent pain. Patient gives history that the swelling occurred after an episode of trauma. Radiographs reveal formation of layers of new subperiosteal bone producing Onion Skin appearance. The patient also has lip paraesthesia and elevated white blood cell count

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166. Based on the clinical and radiographic picture, one of the following conditions could be considered in the provisional diagnosis.

- a) Fracture of the jaw with cancellous bone formation.
- b) Chronic suppurative osteomyelitis
- c) Burkitt's Lymphoma
- d) Ewing's sarcoma

167. One of the following conditions produces onion skin appearance of the jaws on radiographs.

- a) Eosinophilic Granuloma
- b) Osteomyelitis with proliferative periostitis
- c) Chronic diffuse sclerosing osteomyelitis
- d) Fibrous Dysplasia.

168. There is considerable clinical and histological overlap of Ewing's sarcoma with one of the following.

- a) Primitive neuro ectodermal tumour (PNET)
- b) Osteosarcoma
- c) Fibrosarcoma
- d) Chondrosarcoma

169. One of the following statements is true for Ewing's sarcoma.

- a) An episode of trauma often precedes development of Ewing's sarcoma.
- b) Trauma is the main etiology in the development of Ewing's sarcoma.
- c) Relationship between trauma and Ewing's sarcoma has never been reported.
- d) Trauma can be considered as etiology for Ewing's sarcoma provided there is secondary infection.

**For questions 170 to 173 :**

**5 year old residential school child walks in to your clinic with the habit of thumb sucking in association with bruxism**

170. What would be probable cause

- a) Food habits
- b) Nasal septal deviation
- c) Habitual
- d) Psychological

171. Usually sucking digit will be having

- a) Fibrous roughened callus
- b) Laceration of digit
- c) Cut wound on digit
- d) Long finger nails

172. Chemical approach for reminder therapy is
- a) Fem
  - b) Femite
  - c) Nail polish
  - d) Nail polish with flavor
173. Following effects are seen on Maxilla **EXCEPT**
- a) Increased S N to ANS – PNS Angle
  - b) Increased proclination
  - c) Increased Maxillary arch length
  - d) Increased SNA

**For questions 174 to 176 :**

A 4 year old presents with Labio lingual caries affecting only maxillary incisors and involving molars.

174. The diagnosis would be
- a) Type I ECC
  - b) Type II ECC
  - c) Type III ECC
  - d) Rampant caries
175. The most probable cause of such a condition is
- a) High salivary pH
  - b) Consumption of cariogenic food
  - c) Inappropriate use of feeding bottle
  - d) Low birth weight
176. The Number of Streptococcus mutans Colony forming units (CFU) per unit of saliva will be
- a) Negligible
  - b) <100000
  - c) 10000-10,00,000
  - d) >10,00,000

**For questions 177 to 180 :**

An 18 years old male reported with chief complaint of sensitivity and deep, dull, radiating pain during chewing. Intra-oral examination showed sparse plaque and dental calculus deposits, distolabial migration of the maxillary incisors with diastema formation, mobility of maxillary and mandibular incisors and first molars.

Prescribed radiographs showed an arc shaped loss of alveolar bone extending from the distal surface of the mandibular second premolar to the mesial surface of the second molar. There was vertical bone loss in the maxillary incisor region.

177. The most likely disease is

- a) Chronic Periodontitis
- b) Refractory Periodontitis
- c) Localized Aggressive Periodontitis
- d) Necrotizing Ulcerative Periodontitis

178. The bacterial etiology of this disease is

- a) A.actinomycetemcomitans
- b) A.viscosus
- c) A.naeslundii
- d) S. aureus

179. The antigens consistently associated with this disease are

- a) HLA A9 and B15
- b) HLA A0 and B30
- c) HLA A15 and B 9
- d) HLA A 30 and B0

180. The host modulation therapy that may be used as adjunctive therapy for this disease is

- a) Subantimicrobial-dose clindamycin
- b) Subantimicrobial-dose metronidazole
- c) Subantimicrobial-dose doxycycline
- d) Subantimicrobial-dose ciprofloxacin