

160/2025

Question Booklet
Alpha Code

A

Question Booklet
Serial Number

Total No. of questions : 100

Time : 1 Hour 30 Minutes

Maximum : 100 Marks

INSTRUCTIONS TO CANDIDATES

1. The question paper will be given in the form of a Question Booklet. There will be four versions of question booklets with question booklet alpha code viz. A, B, C & D.
2. The Question Booklet Alpha Code will be printed on the top left margin of the facing sheet of the question booklet.
3. The Question Booklet Alpha Code allotted to you will be noted in your seating position in the Examination Hall.
4. If you get a question booklet where the alpha code does not match to the allotted alpha code in the seating position, please draw the attention of the Invigilator IMMEDIATELY.
5. The Question Booklet Serial Number is printed on the top right margin of the facing sheet. If your question booklet is un-numbered, please get it replaced by new question booklet with same alpha code.
6. The question booklet will be sealed at the middle of the right margin. Candidate should not open the question booklet, until the indication is given to start answering.
7. Immediately after the commencement of the examination, the candidate should check that the question booklet supplied to him contains all the 100 questions in serial order. The question booklet does not have unprinted or torn or missing pages and if so he/she should bring it to the notice of the Invigilator and get it replaced by a complete booklet with same alpha code. This is most important.
8. A blank sheet of paper is attached to the question booklet. This may be used for rough work.
9. **Please read carefully all the instructions on the reverse of the Answer Sheet before marking your answers.**
10. Each question is provided with four choices (A), (B), (C) and (D) having one correct answer. Choose the correct answer and darken the bubble corresponding to the question number using Blue or Black Ball-Point Pen in the OMR Answer Sheet.
11. **Each correct answer carries 1 mark and for each wrong answer 1/3 mark will be deducted. No negative mark for unattended questions.**
12. No candidate will be allowed to leave the examination hall till the end of the session and without handing over his/her Answer Sheet to the Invigilator. Candidates should ensure that the Invigilator has verified all the entries in the Register Number Coding Sheet and that the Invigilator has affixed his/her signature in the space provided.
13. Strict compliance of instructions is essential. Any malpractice or attempt to commit any kind of malpractice in the Examination will result in the disqualification of the candidate.

160/2025

Maximum : 100 marks

Time : 1 hour and 30 minutes

1. Match the following and choose the correct combination given below :

Column – I (Name of joint)	Column – II (Type of synovial joint)
(a) Interphalangeal joint	(i) Plane joint
(b) Superior radio-ulnar joint	(ii) Ball and socket joint
(c) Sternoclavicular joint	(iii) Pivot joint
(d) Costovertebral joint	(iv) Saddle joint
	(v) Hinge joint

- (A) (a)-(i), (b)-(iii), (c)-(ii), (d)-(iv)
(B) (a)-(ii), (b)-(v), (c)-(iv), (d)-(i)
(C) (a)-(v), (b)-(iii), (c)-(iv), (d)-(i)
(D) (a)-(v), (b)-(iii), (c)-(i), (d)-(iv)

2. Example for circumpennate muscle is :

- (A) Deltoid muscle
(B) Gluteus maximus muscle
(C) Adductor magnus muscle
(D) Tibialis anterior muscle

3. Valves are absent in the following veins except :

- (A) Testicular vein
(B) Superior vena cava
(C) Superior mesenteric vein
(D) Umbilical vein

4. True statement about sesamoid bone is/are :

- (i) It is composed of woven bone.
(ii) It is nourished through the vessels in the Haversian canals.
(iii) It ossifies after birth.
(iv) It does not have periosteum.

- (A) Only (i) and (iv) (B) Only (ii), (iii) and (iv)
(C) Only (i), (ii) and (iii) (D) Only (i), (iii) and (iv)

5. Superficial fascia contains all except :
- (i) Lymph nodes.
 - (ii) Mammary gland.
 - (iii) Sebaceous gland.
 - (iv) Muscles.
- (A) Only (i) (B) Only (i), (ii) and (iii)
(C) Only (i), (ii) and (iv) (D) Only (i) and (iv)
6. Assertion : Sympathetic nervous system is known as thoracolumbar outflow.
Reason : Cell bodies of preganglionic neurons of sympathetic system are located in the ventral horns of all thoracic segments and upper two lumbar segments of spinal cord.
- (A) Both Assertion and Reason are true and Reason is the correct explanation of Assertion.
(B) Both Assertion and Reason are true but Reason is not the correct explanation of Assertion.
(C) Assertion is true and Reason is false.
(D) Assertion is false and Reason is true.
7. Which of the following statement is/are correct about apoptosis?
- (i) It is a process of programmed cell death
 - (ii) Also called as cell suicide
 - (iii) Abnormal apoptosis occurs in autoimmune diseases and cancer
- (A) Only (ii) and (iii) (B) Only (i) and (ii)
(C) All of the above (i, ii, iii) (D) Only (i) and (iii)
8. Which of the following statement is/are correct about sodium-potassium ATPase pump?
- (i) It is an electrogenic pump
 - (ii) Accounts for a large part of the basal metabolism
 - (iii) Needed for generation of action potential
- (A) Only (ii) and (iii) (B) Only (i) and (ii)
(C) All of the above (i, ii, iii) (D) Only (i) and (iii)
9. Which of the following statement is/are correct about facilitated diffusion?
- (i) Occurs in the direction of concentration gradient
 - (ii) Occurs in the direction opposite to electrical gradient
 - (iii) Does not require energy
- (A) Only (ii) and (iii) (B) Only (i) and (ii)
(C) All of the above (i, ii, iii) (D) Only (i) and (iii)

10. Which of the following statement is/are correct about human body fluid compartments?
- (i) Total blood volume is about 8% of body weight.
 - (ii) About $\frac{1}{3}$ rd of total body water is extracellular, remaining $\frac{2}{3}$ rd is intracellular fluid.
 - (iii) Interstitial fluid accounts for 75% of ECF volume.
- (A) Only (ii) and (iii) (B) Only (i) and (ii)
(C) All of the above (i, ii, iii) (D) Only (i) and (iii)
11. Which of the following statement is/are correct about mitochondria?
- (i) Provides ATP by oxidative phosphorylation
 - (ii) Mitochondrial inheritance is maternal
 - (iii) Mutation rate for mitochondrial DNA is 10 times the rate for nuclear DNA
- (A) Only (ii) and (iii) (B) Only (i) and (ii)
(C) All of the above (i, ii, iii) (D) Only (i) and (iii)
12. Which of the following statement is/are correct about gap junctions?
- (i) It permits rapid propagation of electrical activity from cell to cell
 - (ii) It is traversed by a channel that connects the two cells
 - (iii) Are simply passive and non-specific conduits
- (A) Only (ii) and (iii) (B) Only (i) and (ii)
(C) All of the above (i, ii, iii) (D) Only (i) and (iii)
13. Which of the following is a proapoptotic agent?
- (A) BAX (B) BCL 2
(C) BAL (D) BAD
14. The factor involved in classical Macrophage activation is :
- (A) IFN – γ (B) IL – 4
(C) IL – 13 (D) TNF
15. A venous embolus passing through interarterial defect and gaining access to systemic arterial circulation is called :
- (A) Saddle Embolus (B) Paradoxical Embolus
(C) Retrograde Embolus (D) Venous Embolus
16. Prostaglandin D₂ is produced in mast cells by :
- (A) Caspase pathway (B) Lipoxygenase pathway
(C) Notch signalling pathway (D) Cyclooxygenase pathway

17. Anaplasia refers to :
- (A) Lack of Differentiation
 - (B) Disproportionately large nucleus
 - (C) Replacement of one cell type by another
 - (D) Disordered Growth
18. The major cytokine involved in fibrosis is :
- (A) $\text{TNF } \alpha$
 - (B) MMP
 - (C) $\text{TGF } \beta$
 - (D) PDGF
19. Calculate the volume of distribution of a drug if the total drug in the body is 500 mg and plasma concentration is 10 mg/L :
- (A) 10 L
 - (B) 50 L
 - (C) 25 L
 - (D) 20 L
20. A drug which has high plasma protein binding will have the following properties except :
- (A) High volume of distribution
 - (B) Long acting
 - (C) Bound fraction not available for action
 - (D) Difficult to be removed by hemodialysis
21. Choose the ligand gated receptor :
- (A) Alpha 1
 - (B) Muscarine (M_3)
 - (C) Dopamine (D_2)
 - (D) Nicotine (N_M)
22. Choose the drug which is a CYP3A4 enzyme inhibitor :
- (A) Rifampicin
 - (B) Phenobarbitone
 - (C) Erythromycin
 - (D) Phenytoin
23. Amount of drug needed to produce a certain response is :
- (A) Efficacy
 - (B) Efficiency
 - (C) Potency
 - (D) Bioavailability
24. Histamine and Adrenaline are :
- (A) Physical antagonist
 - (B) Chemical antagonist
 - (C) Physiological antagonist
 - (D) Receptor antagonist

25. Which of the following are true regarding Abetalipoproteinemia?
- (i) Spinocerebellar ataxia is seen.
 - (ii) Mutation in the MTTP gene.
 - (iii) Urinary 17 keto steroid excretion is increased.
 - (iv) Acanthosis nigricans is seen.
- (A) Only (i), (ii) and (iv) are correct
- (B) Only (ii) and (iv) are correct
- (C) Only (i) and (iii) are correct
- (D) Only (i) and (ii) are correct
26. Which is the LDH isoenzyme in brain?
- (A) LDH 1 (B) LDH 2
- (C) LDH 3 (D) LDH 4
27. Lab findings of Acute Intermittent Porphyria include :
- (A) Urine Amino levulinic acid and Porphobilinogen normal, plasma porphyrin normal
- (B) Urine Amino levulinic acid and Porphobilinogen increased, plasma porphyrin increased
- (C) Urine Amino levulinic acid and Porphobilinogen increased, plasma porphyrin normal
- (D) Urine Amino levulinic acid and Porphobilinogen normal, plasma porphyrin increased
28. Which of the following statements are true about Polyamines?
- (i) Requires methionine and citrulline for its synthesis
 - (ii) Requires SAM decarboxylase as key enzyme
 - (iii) Concentration is increased in cancer tissue
 - (iv) They are important for biosynthesis of proteins
- (A) Only (i), (ii) and (iii) are correct
- (B) Only (ii), (iii) and (iv) are correct
- (C) Only (i), (ii) and (iv) are correct
- (D) Only (iii) and (iv) are correct

29. Which of the following statements are true about Wolman's disease?
- (i) It is a cholesterol ester storage disorder
 - (ii) Hypohidrosis is an important clinical feature
 - (iii) X-ray shows Erlenmeyer-flask deformity
 - (iv) Presents with vomiting and diarrhoea
- (A) Only (i) and (ii) are correct
 - (B) Only (i) and (iv) are correct
 - (C) Only (i), (iii) and (iv) are correct
 - (D) Only (ii) and (iv) are correct
30. A 7-year-old boy presents with recurrent episodes of Meningococcal meningitis. He was evaluated for immune functions and his immunoglobulin levels. Total WBC count and neutrophil function were found to be within normal limits. Flow cytometric analysis reveals normal expression of CD55 and CD59 on erythrocytes. However, complement activity testing shows normal C3 levels but markedly reduced CH50 (classical pathway) and AH50 (alternative pathway) assays.
- Which of the following complement component deficiencies best explains his condition?
- (A) C2 deficiency
 - (B) C5-C9 deficiency
 - (C) C1 inhibitor deficiency
 - (D) Factor H deficiency
31. A 30 year old male with cystic fibrosis is presented to medicine OPD with complaints of chronic productive cough. Sputum culture isolated *Pseudomonas aeruginosa*. The possible biofilm formation was suspected by the clinician and he was started on low dose Azithromycin as long term therapy.
- Which of the following best explains the mechanism by which azithromycin benefits this patient?
- (A) It acts as inhibitor to type III secretion system, preventing toxin release
 - (B) It blocks biofilm adherence by competitively binding to bacterial pili receptors
 - (C) It inhibits peptidoglycan synthesis in *P. aeruginosa*
 - (D) It interferes with bacterial quorum sensing by suppressing regulator genes
32. Which cytokine released in response to endotoxin plays the most important role in mediating endotoxic (septic) shock?
- (A) TNF - α
 - (B) IL - 4
 - (C) IL - 2
 - (D) IFN - γ
33. In a competitive ELISA, increasing concentration of antigen in the test sample will lead to :
- (A) Increased color intensity due to more enzyme conjugate binding
 - (B) Decreased color intensity due to inhibition of conjugate binding
 - (C) Unchanged color intensity because antigen does not affect enzyme binding
 - (D) Increased color intensity due to cross-reactivity of antibodies

34. Rheumatoid factor (RF) is commonly detected by agglutination or ELISA methods as part of rheumatoid arthritis diagnosis. Which of the following statements best describes the immunologic nature and diagnostic significance of RF?
- (A) It is an IgM autoantibody directed against the Fc portion of IgG and its presence is specific for rheumatoid arthritis.
 - (B) It is an IgG autoantibody directed against the Fab portion of IgM, found in autoimmune diseases and other chronic infections.
 - (C) Anti CCP (anti-cyclic citrullinated peptide) antibody appear before RF in Rheumatoid arthritis.
 - (D) Anti CCP test give more false positive results compared to RF test.
35. The safety muscle of tongue is :
- (A) Palatoglossus
 - (B) Styloglossus
 - (C) Genioglossus
 - (D) Hyoglossus
36. The epithelium lining palatine tonsil is :
- (A) Simple columnar
 - (B) Stratified cuboidal
 - (C) Stratified squamous non keratinised
 - (D) Simple squamous
37. Which muscle forms the boundary of tonsillar bed?
- (A) Middle constrictor
 - (B) Superior constrictor
 - (C) Palatopharyngeus
 - (D) Tensor palati
38. The thin layer of tissue that covers the root of the tooth and attaches it to the surrounding bone is :
- (A) Periodical ligament
 - (B) Cementum
 - (C) Dentin
 - (D) None of the above
39. The parotid duct opens :
- (A) Opposite second upper molar tooth
 - (B) Opposite second lower molar tooth
 - (C) Floor of mouth
 - (D) Lateral border of tongue
40. The dental pulp consists of :
- (A) Nerve fibres
 - (B) Odontoblasts
 - (C) Fibroblasts
 - (D) All of the above

41. Which nerve is responsible for conducting sensory information from anterior $\frac{2}{3}$ rd of tongue?
- (A) Hypoglossal (B) Facial
(C) Lingual (D) Glossopharyngeal
42. A mandibular first molar with deep caries shows lingering pain to cold. Radiograph shows an intact lamina dura and no periapical changes.
- What is the most appropriate treatment?
- (A) Indirect pulp capping (B) Partial pulpotomy
(C) Complete pulpectomy (D) Direct pulp capping
43. During root canal preparation of a curved canal, the clinician fails to establish a glide path. Which procedural error is most likely?
- (A) Apical zipping (B) Ledge formation
(C) Transportation (D) Over-enlargement of the apex
44. A Class II composite restoration develops postoperative sensitivity even though margins and occlusion are satisfactory. What is the most likely cause?
- (A) Polymerization shrinkage stress
(B) Over-etching of enamel
(C) Excess bonding agent
(D) Over-curing of resin
45. An endodontically treated molar requires full-coverage restoration. A post is avoided because 3 mm of sound coronal dentin remains circumferentially above the finish line. Which biomechanical principle justifies this?
- (A) Need for additional retention
(B) Presence of ferrule effect
(C) Prevention of coronal leakage
(D) Avoidance of secondary caries
46. In a tooth with necrotic pulp and immature apex, regenerative endodontic treatment is chosen over traditional apexification primarily because it :
- (A) Creates a calcified apical barrier
(B) Allows continued root maturation
(C) Requires fewer appointments
(D) Eliminates need for intracanal medicament

47. During crown preparation for a tooth with extensive Class II amalgam restoration, the dentist notes undermined enamel and secondary caries. The ideal management is to :
- (A) Place a new amalgam restoration and delay crown
 - (B) Proceed with crown using existing amalgam as core
 - (C) Remove amalgam, evaluate dentin and place bonded core buildup
 - (D) Reinforce amalgam with a post before crown
48. After obturation, a clinician notices sealer puff slightly beyond the apex on radiograph. The patient is asymptomatic. The best course of action is to :
- (A) Re-treat immediately
 - (B) Perform apicoectomy
 - (C) Leave as is and monitor clinically
 - (D) Remove 1 mm of gutta-percha
49. Macroglossia is a characteristic feature of which among the following syndromes?
- (i) Down syndrome
 - (ii) Beckwith-Wiedemann syndrome
 - (iii) Parry-Romberg syndrome
 - (iv) Apert syndrome
- (A) Only (i) and (ii)
 - (B) Only (i) and (iii)
 - (C) Only (i), (ii) and (iii)
 - (D) All of the above (i), (ii), (iii) and (iv)
50. San Diego criteria for primary Sjogren syndrome include :
- (i) Positive Rose Bengal Staining of cornea or conjunctiva
 - (ii) Abnormal finding from biopsy of minor salivary gland
 - (iii) Serologic evidence of systemic autoimmunity
 - (iv) Clinical features of rheumatoid arthritis
- (A) Only (i) and (ii)
 - (B) Only (i) and (iii)
 - (C) Only (i), (ii) and (iii)
 - (D) All of the above (i), (ii), (iii) and (iv)

- 51.** Patients with Plummer-Vinson Syndrome may exhibit which of the following conditions?
- (i) Microcytic normochromic anemia
 - (ii) Glossitis
 - (iii) Esophageal webs
 - (iv) Koilonychia
- (A) Only (i) and (ii) (B) Only (i), (ii) and (iii)
(C) Only (ii), (iii) and (iv) (D) All of the above (i, ii, iii and iv)
- 52.** Which of the following oral manifestations are strongly associated with HIV infection?
- (i) Candidiasis
 - (ii) Necrotizing ulcerative periodontitis
 - (iii) Kaposi sarcoma
 - (iv) Aphthous stomatitis
- (A) Only (i), (ii) and (iii) (B) Only (i), (iii) and (iv)
(C) Only (i), (ii) and (iv) (D) All of the above (i, ii, iii and iv)
- 53.** Loss of lamina dura on dental radiographs can be observed in which of the following conditions?
- (i) Hypothyroidism
 - (ii) Hyperparathyroidism
 - (iii) Cushing's syndrome
 - (iv) Acromegaly
- (A) Only (i), (ii) and (iii) (B) Only (ii), (iii) and (iv)
(C) Only (i), (iii) and (iv) (D) All of the above (i, ii, iii and iv)
- 54.** Cafe-au-lait pigmentation is seen in which of the following conditions?
- (i) McCune – Albright syndrome
 - (ii) Jaffe-Lichtenstein syndrome
 - (iii) Multiple Endocrine Neoplasia syndromes
 - (iv) Von Recklinghausen's disease of the skin
- (A) Only (i), (ii) and (iii) (B) Only (ii), (iii) and (iv)
(C) Only (i), (ii) and (iv) (D) All of the above (i, ii, iii and iv)

55. The most commonly affected tooth in Primary Failure of Eruption (PFE) is :
- (A) Permanent first molars
 - (B) Permanent first premolars
 - (C) Permanent maxillary canines
 - (D) Permanent maxillary lateral incisors
56. The Total Rotation of the mandible during growth is best represented as :
- (A) Total Rotation = Matrix Rotation – Intramatrix Rotation
 - (B) Total Rotation = Backward Rotation – Angular Rotation
 - (C) Total Rotation = Actual Rotation – Apparent Rotation
 - (D) Total Rotation = Internal Rotation – External Rotation
57. In the surgical orthodontic management of skeletal malocclusions, which orthognathic Surgical Procedure is the most stable?
- (A) Mandible forward
 - (B) Mandible back
 - (C) Maxilla up
 - (D) Maxilla down
58. Which of the following is not a goal of adjunctive orthodontic treatment in adults?
- (A) To improve periodontal health
 - (B) To establish a favorable crown-to-root ratio
 - (C) To facilitate restorative treatment for optimal esthetics
 - (D) To improve occlusion in patients with temporomandibular disorders (TMD)
59. The Artistic Positioning bends given during the finishing phase of treatment with standard edgewise appliance are :
- (A) Zero-order bends
 - (B) First-order bends
 - (C) Second-order bends
 - (D) Third-order bends
60. If heavy and sustained pressure is applied by the labial bow of a removable appliance, the undermining resorption typically begins after :
- (A) 4-6 hours
 - (B) 1-2 days
 - (C) 3-5 days
 - (D) 7-14 days

- 61.** The phase of very slow eruption that occurs after the post emergent spurt, once the tooth has reached the occlusal level of adjacent teeth and is in full function, is known as :
- (A) Continuous Occlusal Equilibrium
 - (B) Juvenile Occlusal Equilibrium
 - (C) Adult Occlusal Equilibrium
 - (D) Attritional Occlusal Equilibrium
- 62.** Which among the following statements regarding caries and pulpal inflammation in primary teeth are correct?
- (i) The primary pulp mounts a different response to occlusal caries progression as that of a permanent tooth.
 - (ii) Deep proximal caries produces a more widespread inflammation than an occlusal lesion of similar size
 - (iii) The extent of breakdown of the marginal ridge gives an indication of how much of the pulp will be inflamed
- (A) Only (i) and (iii) are correct
 - (B) Only (i) and (ii) are correct
 - (C) Only (ii) and (iii) are correct
 - (D) (i), (ii) and (iii) are correct
- 63.** Sodium Fluoride is:
- (A) Used in Pesticides
 - (B) Used in water fluoridation
 - (C) An industrial waste product
 - (D) All of the above
- 64.** An eight-and-a-half year old girl with no clinical caries, no positive history and not at increased risk for caries has reported for a periodic recall. The proximal surfaces of her posterior teeth cannot be examined visually or with a probe. What is the guideline for dental radiograph prescription for this child?
- (A) Posterior bitewing examination at 3 – 6 month intervals
 - (B) Posterior bitewing examination at 6 – 12 month intervals
 - (C) Posterior bitewing examination at 12 – 18 month intervals
 - (D) Posterior bitewing examination at 12 – 24 month intervals

- 65.** A 7-year-old boy has reported with amber coloured teeth showing attrition and fractured enamel and classic shell teeth appearance on radiographs. Diagnose the condition :
- (A) Regional odontodysplasia
 - (B) Dentinogenesis imperfecta I
 - (C) Dentinogenesis imperfecta II
 - (D) Amelogenesis imperfecta
- 66.** The best method of caries management in a very young and uncooperative child presenting with multiple teeth with dentinal caries but with no signs and symptoms of pulpal inflammation is :
- (A) Remineralization using ACP-CCP application
 - (B) Non restorative caries control by SDF application
 - (C) Atraumatic restorative treatment using GIC
 - (D) SS crown placement by Hall technique
- 67.** Which of the following statements is/are wrong about severe tongue thrusting habit?
- (i) Abnormal masseteric activity and temporalis contraction can be seen
 - (ii) Increased lower anterior facial height and anterior open bite
 - (iii) Can be managed by three alarm system
- (A) Only (i) and (iii) are wrong
 - (B) Only (i) and (ii) are wrong
 - (C) Only (ii) and (iii) are wrong
 - (D) (i), (ii) and (iii) are wrong
- 68.** As per International Association of Dental Traumatology 2020 guidelines, the endodontic treatment guidelines for an avulsed permanent tooth with an open apex that was not stored in a physiologic or osmolality-based storage media and with an extra oral dry time longer than 60 minutes is :
- (A) Replant the tooth, passive and flexible splinting for 1 week, pulp revascularization/apexification if pulp necrosis or infection is identified during follow up.
 - (B) Replant the tooth, passive and flexible splinting for 2 weeks, pulp revascularization/apexification or root canal treatment as soon as pulp necrosis or infection is identified during follow up.
 - (C) Replant the tooth, passive and flexible splinting for 1 week, pulp revascularization/apexification within 7 days of replantation.
 - (D) Replant the tooth, passive and flexible splinting for 2 weeks, pulp revascularization/apexification before removal of splint.

69. When condyle is translated forward, which structure retracts the disc posteriorly?
- (A) Posterior fibers of temporalis muscle
 - (B) Superior retrodiscal lamina
 - (C) Superior fibers of lateral pterygoid muscle
 - (D) Inferior retrodiscal lamina
70. Thermoluminescent Dosimeter (TLDS) contains :
- (A) Aluminium oxide detector
 - (B) Energy activated silicon diode
 - (C) Lithium fluorides
 - (D) Different Metal filters and small radiographic film
71. Approach to decipher three dimensional relationship by radiography :
- (A) Examine two conventional images projected at right angle to each other
 - (B) Use Clark rule employing Conventional Periapical view
 - (C) Both of the above
 - (D) None of the above
72. Adherent white plaque that resembles “Cottage Cheese” appearance in oral mucosa :
- (A) White coated tongue
 - (B) Morsicatio
 - (C) Thrush
 - (D) Cotton roll burn
73. SOAP note concept was initially proposed by Dr. Lawrence Weed in 1960s. Which of the following is a component of SOAP note?
- (A) Prognosis
 - (B) Progress
 - (C) Plan
 - (D) Post
74. Self rectified dental X-ray machines have :
- (A) Alternating current X-ray generation Power Supply
 - (B) Constant potential (Direct Current) X-ray generation power supply
 - (C) X-ray production is limited to full of AC cycle
 - (D) X-ray production limited to half of DC cycle

75. The Framework Convention on Tobacco Control (FCTC) is considered a landmark in global public health governance because it :
- (A) mandates all member states to ban tobacco production
 - (B) introduces binding international legal obligations to reduce tobacco demand and supply
 - (C) recommends voluntary national programs for tobacco cessation
 - (D) establishes a global fund for tobacco-related disease treatment
76. During a study on tobacco and oral cancer, age was found to be associated with both smoking and cancer. Which of the following best describes age in this context?
- (A) Confounder
 - (B) Exposure
 - (C) Effect modifier
 - (D) Outcome
77. A Cohort study investigated cholera among villagers drinking treated vs. untreated water. Out of 500 people drinking untreated water, 50 developed cholera; among 500 drinking treated water, 10 developed cholera. What is the Relative Risk (RR)?
- (A) 1.5
 - (B) 3.0
 - (C) 5.0
 - (D) 0.2
78. Which vector-borne disease is most commonly linked to poor housing and overcrowding?
- (A) Cholera
 - (B) Malaria
 - (C) Hepatitis A
 - (D) Tuberculosis
79. Which study design is best suited to estimate the incidence of dental caries in a population over time?
- (A) Prospective cohort
 - (B) Case-control
 - (C) Cross-sectional
 - (D) Ecological
80. The critical period for susceptibility to dental fluorosis is :
- (A) First 3 months after birth
 - (B) During eruption of primary teeth
 - (C) During enamel formation of permanent teeth
 - (D) After permanent teeth have erupted

81. Application of silver diamine fluoride on a carious deciduous tooth for the purpose of arresting caries is best described as which level of prevention of dental caries?
- (A) Primordial prevention (B) Primary prevention
(C) Secondary prevention (D) Tertiary prevention
82. Which fibers have the tendency to recreate as alveolar bone destruction progresses in periodontitis?
- (A) Alveolar crest group of fibers
(B) Horizontal group of fibers
(C) Interradicular group of fibers
(D) Transseptal group of fibers
83. “Rotten apple smell” type of breath is observed in :
- (A) Diabetes mellitus
(B) Hepatocellular failure
(C) Chronic glomerulonephritis
(D) Chronic bronchitis
84. Which microorganism belong to the RED group of Sub-gingival microbial complexes?
- (A) P. gingivalis, P. Intermedia, P. nigrescens
(B) T. forsythia, Actinomycetes, C. Rectus
(C) P. gingivalis, T. forsythia, T. denticola
(D) T. denticola, F. nucleatum, S. Oralis
85. Which of the following is/are True for Bacterial Replacement Therapy?
- (i) Produces minimal effect on immune response
(ii) Bacteria are incorporated in toothpastes or dietary supplements
(iii) Produces long-term and dramatic change in periodontal microbiota
- (A) Only (i)
(B) Only (ii)
(C) Only (i) and (iii)
(D) All of the above

86. Which of the following periodontal graft material becomes coated with hydroxyl-carbonate apatite when it comes in contact with tissue fluids?
- (A) Tricalcium phosphate
 - (B) Bioactive glass
 - (C) Hydroxyapatite
 - (D) Coral-derived material
87. Which of the following statements are True for Trauma from occlusion?
- (i) Funnel-shaped widening of the crestal portion of periodontal ligament
 - (ii) Increased tooth mobility
 - (iii) Initiates gingivitis
- (A) Only (i) and (ii)
 - (B) Only (ii) and (iii)
 - (C) Only (i) and (iii)
 - (D) All of the above
88. A 14-week-old, otherwise healthy male infant, weighing 5.5 kg, is scheduled for an elective unilateral cleft lip repair (Millard rotation-advancement technique). The surgical team anticipates the procedure will last approximately 90 minutes and require the surgeon to work extensively around the oral cavity, lips and philtrum. Which of the following is the most appropriate combination of tube size, type and orientation for securing the airway in this specific clinical context?
- (A) 3.5 mm uncuffed Flexometallic (Armored) Endotracheal tube, nasally placed.
 - (B) 3.5 mm uncuffed South Facing RAE (Ring-Adair-Elwyn) Endotracheal tube, orally placed.
 - (C) 4.0 mm uncuffed South Facing RAE (Ring-Adair-Elwyn) Endotracheal tube, orally placed.
 - (D) 4.0 mm uncuffed North Facing RAE (Ring-Adair-Elwyn) Endotracheal tube, orally placed.

89. A 45-year-old male patient reports developing facial flushing and beads of sweat over his left cheek and temporal area immediately after he starts chewing or tastes food. This condition developed three months following a parotidectomy and is strongly suggestive of Frey's Syndrome. Which of the following diagnostic procedures is the most definitive and objective method used to confirm and precisely map the anatomical extent of this condition?
- (A) Schirmer tear test
 - (B) Administration of phentolamine mesylate to the affected area to demonstrate sympathetic nerve involvement
 - (C) Minor starch-iodine test
 - (D) Sialography with contrast medium to visualize the parotid ductal system
90. A 25-year-old male has reported with a complaint of a protruding chin and difficulty in biting food with incisors. Intraoral examination shows a reverse overjet of 5mm with a normal overbite. He also exhibits a gummy smile and mild flattening of the nasolabial region. Cephalometric analysis shows SNA-78°, SNB-84°, FMA-30°. Upper incisor to SN 100°. The most appropriate surgical treatment to address these dentofacial deformities to achieve a stable class I occlusion would be :
- (A) Lefort 1 Maxillary Advancement and Impaction combined with BSSO Mandibular Setback
 - (B) Lefort 1 Maxillary Advancement and Posterior bone graft with BSSO Mandibular Setback combined with Interpositional genioplasty.
 - (C) Lefort 1 Maxillary Advancement combined with reduction genioplasty.
 - (D) High Lefort 1 osteotomy with BSSO Mandibular Setback
91. You have been monitoring a patient for the past 4 months for recovery of nerve function following iatrogenic lingual nerve injury after third molar surgery. You observe that the patient has a painful tingling response to crude stimuli. This is suggestive of a diagnosis of :
- (A) Sensory deafferentation
 - (B) Hyperalgesia
 - (C) Allodynia
 - (D) Hyperpathia

92. A 60-year-old female patient, with a history of an uncontrolled odontogenic infection in the maxillary posterior region, presents to the dental department. She reports the sudden onset of a severe, unilateral headache and pain localized behind her left eye. Which of the following is the earliest, localized neurological deficit typically observed that strongly indicates the infection has progressed to involve the cavernous sinus?
- (A) Lateral squint of the left eye
 - (B) Numbness of the left forehead and upper eyelid
 - (C) Medial squint of the left eye
 - (D) Dilated sluggish pupil of the left eye
93. Which of these cardiac conditions require prophylactic antibiotics prior to oral surgery to prevent infective endocarditis?
- (A) Tricuspid Atresia
 - (B) Pre-existing cardiac pacemaker
 - (C) Post Coronary Artery Bypass Grafting
 - (D) Rheumatic Heart Disease
94. Cephalosporins are prescribed for odontogenic infections involving the fascial spaces. The main difference between the antibiotics 'cefazolin' and 'ceftriaxone' is the :
- (A) Increased activity of ceftriaxone against gram positive organisms in comparison to cefazolin
 - (B) Increased activity of cefazolin against gram negative organisms in comparison to ceftriaxone
 - (C) Increased activity of ceftriaxone against gram negative organisms in comparison to cefazolin
 - (D) Increased activity of ceftriaxone against anaerobic organisms in comparison to cefazolin
95. Tissue conditioners used for treatment of traumatized denture-bearing mucosa should generally be replaced :
- (A) Every 24 hours to prevent fungal growth
 - (B) Every 3 to 7 days, depending on oral conditions
 - (C) Once every month after routine denture cleaning
 - (D) Every 2 weeks to maintain viscoelasticity

- 96.** The carborundum stripping technique for occlusal equilibration in removable prosthodontics is primarily employed for :
- (A) Anatomic teeth
 - (B) Semi-anatomic teeth
 - (C) Non-anatomic teeth
 - (D) Balanced monoplane teeth to create compensating curve
- 97.** In removable partial dentures (RPD), tissue stops are primarily incorporated to :
- (A) Prevent displacement of abutment teeth during function
 - (B) Aid in indirect retention
 - (C) Prevent framework distortion
 - (D) Reduce connector size
- 98.** Stress breakers in distal extension RPDs primarily permit :
- (A) Horizontal movement
 - (B) Vertical movement
 - (C) Rotational movement around the fulcrum line
 - (D) No movement
- 99.** A canine replacement bridge is considered biomechanically complex primarily because :
- (A) The span length between abutments is longer than in other anterior bridges
 - (B) The canine often lies outside the interabutment axis
 - (C) The abutment teeth usually have inadequate crown height
 - (D) The cement film thickness is greater due to path of insertion discrepancy.
- 100.** A half-moon fracture of the porcelain jacket crown is most commonly caused by :
- (A) Edge to edge occlusion
 - (B) Occluding opposite teeth on the cervical fifth of the lingual surface
 - (C) Short clinical crowns
 - (D) Excessive thickness of opaque porcelain layer
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