
DO NOT OPEN THIS TEST BOOKLET UNTIL YOU ARE TOLD TO DO SO.

INSTRUCTIONS

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.
2. Please note that it is the candidate's responsibility to encode and fill in the Roll Number and Test Booklet Series Code A, B, C or D carefully and without any omission or discrepancy at the appropriate places in the OMR Answer Sheet. Any omission/discrepancy will render the OMR Answer Sheet liable for rejection.
3. You have to enter your Roll Number on the Test Booklet in the Box provided alongside. **DO NOT** write *anything else* on the Test Booklet.

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4. This Test Booklet contains **200** items (questions). Each item is printed in **English** only. Each item comprises four responses (answers). You will select the response which you want to mark on the OMR Answer Sheet. In case you feel that there is more than one correct response, mark the response which you consider the best. In any case, choose **ONLY ONE** response for each item.
5. You have to mark all your responses **ONLY** on the separate OMR Answer Sheet provided. See directions in the OMR Answer Sheet.
6. **All** items carry equal marks.
7. Before you proceed to mark in the OMR Answer Sheet the response to various items in the Test Booklet, you have to fill in some particulars in the OMR Answer Sheet as per instructions mentioned on the OMR Answer Sheet.
8. After you have completed filling in all your responses on the OMR Answer Sheet and the examination has concluded, you should hand over to the Invigilator **only the OMR Answer Sheet**. You are permitted to take away with you the Test Booklet, along with candidate copy of OMR Answer Sheet.
9. Sheets for rough work are appended in the Test Booklet at the end.

10. Penalty for wrong answers :

THERE WILL BE PENALTY FOR WRONG ANSWERS MARKED BY A CANDIDATE AS UNDER.

- (i) There are four alternatives for the answer to every question. For each question for which a wrong answer has been given by the candidate, One Fourth marks (1 mark) of the marks assigned to that question will be deducted as penalty.
- (ii) If a candidate gives more than one answer, it will be treated as a wrong answer even if one of the given answers happens to be correct and there will be same penalty as above to that question.
- (iii) If a question is left blank, i.e., no answer is given by the candidate, there will be no penalty for that question.

- 1 Given below are two statements:
 Statement I : A sensory nerve supplying a joint also supplies the muscles moving the joint and the skin overlying the insertions of these muscles.
 Statement II : Sympathetic fibers control the blood supply to the joint. Overstretching of the capsule and ligaments produces reflex contraction of muscles around the joint.
 In the light of the above statements, choose the correct answer from the options given below
 (A) Both Statement I and Statement II are true
 (B) Both Statement I and Statement II are false
 (C) Statement I is correct but Statement II is false
 (D) Statement I is incorrect but Statement II is true

- 2 Match the cutaneous nerves with their correct origin and region they supply.

List I

- A. Greater occipital nerve
 B. Lesser occipital nerve
 C. Great auricular nerve
 D. Transverse cutaneous nerve

List II

- I. C_2 , hooks around accessory nerve supplies medial surface of auricle
 II. Posterior ramus of C_2 supplies back of head
 III. C_2 & C_3 supply from the body of mandible to the sternum
 IV. C_2 & C_3 supply skin over angle of mandible

Choose the correct answer from the options given below:

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

- 3 Brachial plexus is formed from

- A. Anterior Rami of 5th cervical nerve
 B. Anterior Rami of 6th cervical nerve
 C. Anterior Rami of 7th cervical nerve
 D. Anterior Rami of 8th cervical nerve
 E. First thoracic nerve

Choose the correct answer from the options given below:

- (A) A, B, C & D Only
 (B) A, B, C, D & E
 (C) B, C, D & E Only
 (D) C, D & E Only

- 4 Match the muscle with its nerve supply

List I

- A. Stylohyoid
 B. Sternomastoid
 C. Sternohyoid
 D. Thyrohyoid

List II

- I. C_1 via a branch of hypoglossal nerve
 II. Spinal accessory nerve
 III. Facial nerve
 IV. Ansa cervicalis C 1, 2 & 3

Choose the correct answer from the options given below:

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

- 5 Which of the following are the branches of ophthalmic nerve?
A. Infraorbital nerve
B. External nasal nerve
C. Infra trochlear nerve
D. Lacrimal nerve
Choose the correct answer from the options given below:
(A) A, B, & C only (B) B, C, & D only
(C) A, B, C, & D (D) C & D only
- 6 Internal carotid plexus is formed from:
(A) Internal carotid nerve branch of superior cervical ganglion consisting of post-ganglionic fibres
(B) Internal carotid nerve branch of middle cervical ganglion, consisting of post-ganglionic fibres
(C) Internal carotid nerve branch of middle cervical ganglion, consisting of pre-ganglionic fibres
(D) Internal carotid nerve branch of superior cervical ganglion coursing of pre-ganglionic fibres
- 7 The system that controls smooth muscle, cardiac muscle & gland activity is the
(A) Somatic nervous system (B) Autonomous nervous system
(C) Sensory nervous system (D) Central nervous system
- 8 The vaccines produced for Covid-19 have used different technologies. One of those technologies has been used for the first time in a few vaccines, like the Pfizer-BioNTech and Moderna vaccines. This technology is called:
(A) Protein subunit vaccine technology
(B) Non-viral replicating vector vaccine technology
(C) Whole virus vaccine technology
(D) mRNA vaccine technology
- 9 All of the following are the branches of facial artery, EXCEPT:
(A) Ascending palatine artery (B) Tonsillar artery
(C) Sublingual artery (D) Submental artery
- 10 Which of the following structure attaches to the lingula?
(A) Stylomandibular ligament (B) Sphenomandibular ligament
(C) Temporomandibular ligament (D) Inferomedial part of articular disc

14 Match List I and List II with respect to acid imbalance

List I

- A. Respiratory acidosis
- B. Respiratory alkalosis
- C. Metabolic acidosis
- D. Metabolic alkalosis

List II

- I. Increase in pH, marked decrease in $p\text{CO}_2$, marked increase in HCO_3^-
- II. Decrease in pH, marked decrease in $p\text{CO}_2$, marked decrease in HCO_3^-
- III. Increase in pH, marked decrease in $p\text{CO}_2$, decrease in HCO_3^-
- IV. Decrease in pH, marked increase in $p\text{CO}_2$, increase in HCO_3^-

Choose the correct answer from the options given below:

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

15 Match vitamins with functions

Vitamins

- A. Phylloquinone
- B. Thiamine
- C. Ascorbic acid
- D. Cobalamin

Functions

- I. Coenzyme in hydroxylation of proline & lysine in collagen synthesis
- II. Coenzyme in formation of γ -carboxyglutamate in enzymes of bone matrix & blood clotting
- III. Coenzyme in transfer of one carbon fragment & metabolism of folic acid
- IV. Coenzyme in pyruvate & α -ketoglutarate dehydrogenase and transketolase

Choose the correct answer from the options given below:

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

16 Given below are two statements:

Statement I : Prostaglandins are biologically active derivatives of 24 carbon atom monounsaturated essential fatty acids.

Statement II : Prostaglandins are released from cell membrane phospholipids.

In the light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

17 During intrinsic pathway of blood clotting, choose the following clotting factors in the correct sequence at which clotting factors will act:

- A. Factor V
- B. Factor VIII
- C. Factor IX
- D. Factor X
- E. Factor XI
- F. Factor XII
- G. Factor XIII

Choose the correct answer from the options given below:

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

18 Glycosylated haemoglobin (HbA1c) is used for diagnosis of diabetes and monitoring of anti-diabetic therapy. It provides information about blood sugar levels over the past:

- (A) 24 hours
- (B) 7 days
- (C) 30 days
- (D) 3 months

19 A child is brought to the OPD. His parents complain that the child drools excessively. They also inform that the child is undergoing some treatment under Neurology. You observe that the child has peroral dermatitis and there is dental malocclusion. The drug that can be considered in such a setting, but the use of which is limited by adverse effects, is:

- (A) Pilocarpine
- (B) Neostigmine
- (C) Glycopyrrolate
- (D) Clozapine

20 Read the following statement:

“Drug ‘X’ is 95% bound to plasma proteins.”

Most of this binding is usually with which of the following proteins:

- (A) Albumin
- (B) Globulins
- (C) Lipoprotein
- (D) Glycoprotein

21 Match List I with List II

Match the adrenergic receptors with the location and their function they are found predominantly

List I

- A. Alpha₁
- B. Alpha₂
- C. Beta₁
- D. Beta₂

List II

- I. Presynaptic at sympathetic neurons, inhibitory
- II. Bronchial smooth muscle, relaxation
- III. Blood vessels, vasoconstriction
- IV. Heart, positive inotropic & chronotropic effect

Choose the correct answer from the options given below:

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

- 22 Match List I with List II
Match the NSAIDs according to their class

List I

- A. Non-selective COX inhibitor
- B. Preferential COX₂ inhibitor
- C. Selective COX₂ inhibitor
- D. Analgesic, antipyretic, poor inflammatory

List II

- I. Nimesulide
- II. Celecoxib
- III. Ketorolac
- IV. Paracetamol

Choose the correct answer from the options given below:

- (A) A-I, B-III, C-II & D-IV
- (B) A-I, B-IV, C-II & D-III
- (C) A-III, B-II, C-IV & D-I
- (D) A-III, B-I, C-II & D-IV

- 23 A 60-year-old female reported with chronic cough and enlarged bilateral parotid glands. Fine needle aspiration cytology from parotid glands revealed no caseating granulomas. The most likely diagnosis for this patient would be:

- (A) Tuberculosis
- (B) Sarcoidosis
- (C) Actinomycosis
- (D) Nocardiosis

- 24 Match List I (antibiotic names) with List II (their mechanism of action)

List I

- A. Cephalosporins
- B. Tetracyclines
- C. Fluoroquinolones

List II

- I. Inhibit DNA gyrase
- II. Inhibit cell wall synthesis
- III. Bind to the 30S bacterial ribosome and prevent access of amino-acyl tRNA to the acceptor (A) site on the mRNA-ribosome complex
- IV. Cause misreading and premature termination of mRNA translation

Choose the correct answer from the options given below:

- (A) A-II, B-IV, C-I & D-III
- (B) A-II, B-III, C-I & D-IV
- (C) A-III, B-II, C-IV & D-I
- (D) A-III, B-I, C-II & D-IV

- 25 A patient is on oral anticoagulant warfarin and needs dental extraction. The most valuable test to do before dental extraction:

- (A) PTTK
- (B) BT
- (C) CT
- (D) INR

- 26 Which of the following drugs are calcium channel blockers?

- A. Diltiazem
- B. Ticlopidine
- C. Felodipine
- D. Amlodipine

Choose the correct answer from the options given below:

- (A) A, B, C & D
- (B) B, C, & D Only
- (C) A, C, & D Only
- (D) C & D only

- 27 Which of the following is a centrally acting muscle relaxant?
 (A) Succinylcholine (B) Dantrolene sodium
 (C) Vecuronium (D) Baclofen
- 28 Which of the following is leukotriene agonist used for prophylactic therapy in mild to moderate asthma?
 (A) Sodium cromoglycate (B) Ketotifen
 (C) Montelukast (D) Beclomethasone dipropionate
- 29 Which of the following are the causes of hypercalcemia?
 A. Decreased secretion of parathormone
 B. Destruction of bone due to accelerated turnover
 C. Sarcoidosis
 D. Renal failure
 E. Vit. D intoxication
 Choose the correct answer from the options given below:
 (A) A, B, C & D Only (B) A, B, C & E Only
 (C) B, C, D & E Only (D) A, C, D & E Only
- 30 A fifteen-year-old boy has suffered a hairline, undisplaced fracture of midline mandible without any mobility. Treatment of choice for this patient should be:
 (A) Open reduction & fixation with rigid plate
 (B) Open reduction & fixation with intraosseous wiring
 (C) Intermaxillary fixation with the help of screws
 (D) Observation of the fracture for healing and no surgical intervention
- 31 Which of the following drugs is indicated for short-term management of moderately severe acute pain if the physician does not intend to prescribe an opioid analgesic?
 (A) Dexamethasone (B) Codeine
 (C) Buprenorphine (D) Ketorolac
- 32 Cerebral malaria is usually caused by
 (A) Plasmodium vivax (B) Plasmodium malariae
 (C) Plasmodium falciparum (D) Plasmodium ovale
- 33 What is the correct sequence through which malignancy develops in human body?
 A. Mutation in the genome of somatic cells
 B. DNA damage
 C. Acquired agents (Radiation, Virus, Chemical)
 D. Heterogeneity
 E. Alterations of apoptosis regulating genes
 Choose the correct answer from the options given below:
 (A) C, A, B, D & E (B) A, B, C, E & D
 (C) C, B, A, E & D (D) A, C, D, B & E

34 Given below are two statements:

Statement I : Metaplasia is a reversible change in which one adult cell type is replaced by another adult cell type

Statement II : In cigarette smokers normal ciliated columnar epithelial cells of trachea & bronchi are focally or widely replaced by stratified squamous epithelial cells

In the light of the above statements, choose the correct answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

35 Match List I with List II

Match the pathogen with the disease caused by them

List I

- A. Chlamydia
- B. Leishmania
- C. Wuchereria
- D. Trypanosoma

List II

- I. Kala Azar
- II. Trachoma
- III. Sleeping sickness
- IV. Filariasis

Choose the correct answer from the options given below:

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

36 A 27-year-old male is scheduled for dental extraction. He needs to be given prophylaxis for prevention of infective endocarditis. He gives a history of anaphylactic reaction to penicillin. He is unable to take medicine orally. Which of the following is the most suitable drug?

- (A) Inj. ampicillin 2 gm IV or IM the day before procedure
- (B) Inj. cefazoline 1 gm IV or IM 60-90 minutes before procedure
- (C) Inj. clindamycin 600 mg IV 30-60 minutes before procedure
- (D) Azithromycin 500 mg orally 2 hours before procedure

37 Match List I with List II

Match the types of autoimmune diseases with their corresponding example

List I

- A. Immediate hypersensitivity
- B. Antibody mediated
- C. Immune complex mediated
- D. Delayed type

List II

- I. Myasthenia gravis
- II. Anaphylaxis
- III. Contact dermatitis
- IV. Serum sickness

Choose the correct answer from the options given below:

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

38 Match List I with List II

Match the antiviral drugs with their main indication

List I

- A. Acyclovir
- B. Amantadine
- C. Sofosbuvir
- D. Ganciclovir

List II

- I. CMV infection in immunosuppressed
- II. Influenza A
- III. Herpes simplex
- IV. Hepatitis C

Choose the correct answer from the options given below:

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

39 Given below are two statements:

Statement I : According to Bohr's effect as capillary PCO₂ rises the oxyhemoglobin dissociation curve moves to the left.

Statement II : When oxyhemoglobin dissociation curve moves to the right, unloading of the oxygen in the tissues increases.

In the light of the above statements, choose the Correct answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

40 Systemic inflammatory response syndrome is defined as having:

- A. Organ failure
- B. Temperature >38°C or <36°C
- C. Heart rate >90/min
- D. WBC > 12×10⁹ / L or <4×10⁹/L
- E. Respiratory rate <20/min

Choose the correct answer from the options given below:

- (A) A, B, C & E Only
- (B) A, B, D & E Only
- (C) B & D Only
- (D) B, C & D Only

41 The most common causative organism responsible for antibiotic associated diarrhea is:

- (A) Clostridioides difficile
- (B) Campylobacter jejuni
- (C) Escherichia coli
- (D) Shigella spp

42 All the following are acyanotic congenital heart diseases, EXCEPT:

- (A) Patent Ductus Arteriosus
- (B) Coarctation of Aorta
- (C) Atrial Septal Defect
- (D) Tricuspid Atresia

- 43 Type I respiratory failure is characterized by which of the following arterial blood gas variations:
A. PaCO₂ low
B. PaCO₂ high
C. PaO₂ low
D. PaO₂ high
E. PaO₂ normal
Choose the correct combination
(A) A & C (B) B & D
(C) A & E (D) B & C
- 44 The Biochemistry test of CSF (cerebrospinal fluid) suggestive of bacterial meningitis reveals:
(A) Increased protein, normal sugar (B) Increased protein, decreased sugar
(C) Normal protein, decreased sugar (D) Low protein, normal sugar
- 45 What is the correct sequence of decontamination & usage of re-usable surgical equipment?
A. Transport
B. Sterilize
C. Clean
D. Disinfect
E. Storage
Choose the correct answer from the options given below:
(A) B-C-D-A-E (B) E-B-D-A-C
(C) C-D-B-A-E (D) D-A-C-B-E
- 46 Given below are two statements:
Statement I : Allografts produce a graft rejection because of allelic differences at monomorphic genes that gives rise to transplant antigens.
Statement II : These transplant antigens are ABO Blood group antigens, major Histocompatibility antigens, and minor Histocompatibility antigens.
In the light of the above statements, choose the correct answer from the options given below
(A) Both Statement I and Statement II are true
(B) Both Statement I and Statement II are false
(C) Statement I is correct but Statement II is false
(D) Statement I is incorrect but Statement II is true
- 47 The most likely cause of drug-associated oral candidiasis in a patient on chronic treatment for bronchial asthma:
(A) Theophylline orally (B) Inhaled ipratropium
(C) Inhaled formeterol (D) Inhaled fluticasone

48 Match List I with List II

List I

- A. Packed red cells
- B. Platelet rich plasma
- C. Fibrinogen
- D. Cryoprecipitate

List II

- I. Thrombocytopenia, requiring surgery
- II. Chronic anemia
- III. Hemophilia
- IV. Disseminated intravascular coagulation

Choose the correct answer from the options given below:

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

49 All of the following are examples of absorbable sutures, EXCEPT

- (A) Polyglactin
- (B) Poliglecaprone
- (C) Polypropylene
- (D) Polydioxanone

50 "Cystic Hygroma" is:

- (A) Cavernous haemangioma
- (B) Sebaceous cyst
- (C) Dermoid cyst
- (D) Capillary haemangioma

51 A 20-year male presented with small swelling in front of neck in midline, swelling moves upward on protrusion of tongue. What is the most likely diagnosis?

- (A) Thyroglossal cyst
- (B) Branchial cyst
- (C) Thyroid nodule
- (D) Enlarged sub-mental lymph node

52 The most common primary malignant thyroid tumour is:

- (A) Follicular
- (B) Papillary
- (C) Anaplastic
- (D) Medullary

53 Microcracks which form at elevated temperature in thin cast areas of alloys, which are unable to resist these stresses caused by investment material during solidification are called:

- (A) Hot pearls
- (B) Hot spots
- (C) Hot tears
- (D) Suck back

54 Eutectic alloys have limited solubility and correspond to composition in an alloy system which has:

- (A) The lowest melting point
- (B) The highest melting point
- (C) Pure metal composition
- (D) Highest corrosion resistance

55 Strain hardening increases dislocation along grain boundaries and:

- (A) Increases hardness and increases ductility
- (B) Decreases hardness and increases ductility
- (C) Increases hardness and decreases ductility
- (D) Decreases hardness and decreases ductility

- 56 The fracture toughness and critical strain energy release rate are a measure of:
 (A) Ductility (B) Melting point
 (C) Conductivity (D) Resistance to crack propagation
- 57 The step involved in finishing and polishing of composite, where an application of sealer of low viscosity resin is done to fill surface porosity and seal microcrack is called:
 (A) Remargination (B) Rebonding
 (C) Etching (D) Total etching

58 Match the terminologies with their definitions:

List I

- A. Chroma
 B. Hue
 C. Value
 D. Color
 E. Translucency

List II

- I. Sensation induced from light of varying wavelengths reaching the eye
 II. Quality of light passing through an object in a diffuse manner
 III. Degree of saturation of a particular hue
 IV. Relative lightness or darkness of a color
 V. Dominant color of an object

Choose the correct answer from the options given below:

- (A) A-II, B-I, C-III, D-V, E-IV (B) A-III, B-V, C-IV, D-I, E-II
 (C) A-IV, B-II, C-V, D-III, E-I (D) A-I, B-II, C-III, D-IV, E-V

59 Given below are two statements:

Statement I : In terms of deformation and flow characteristic of matter, dilatant matter's resistance to flow decreases as the rate of deformation increases, i.e., the faster a dilatant is stirred or forced through a syringe, the less viscous it becomes.

Statement II : On the other hand, when the pseudo-plastic fluid is stirred or forced through a syringe, it flows less easily.

In the light of the above statements, choose the Correct answer from the options given below

- (A) Both Statement I and Statement II are true
 (B) Both Statement I and Statement II are false
 (C) Statement I is correct but Statement II is false
 (D) Statement I is incorrect but Statement II is true

60 Match the types of the failure of elastomeric impression material with their causes:

List I

- A. Rough or uneven impression surfaces
 B. Bubbles
 C. Irregularly shaped void
 D. Rough or chalky stone cast
 E. Distortion

List II

- I. Air incorporating during mixing
 II. Excessive bulk of material
 III. Moisture or debris on the surface of tooth
 IV. Surface agents such as latex, that contaminate the material
 V. Inadequate cleaning of impression

Choose the correct answer from the options given below:

- (A) A-I, B-III, C-II, D-V, E-IV (B) A-I, B-II, C-V, D-III, E-IV
 (C) A-IV, B-I, C-III, D-V, E-II (D) A-IV, B-I, C-II, D-III, E-V

61 Accelerator tube of Zinc Oxide eugenol impression paste contains:

- A. Oil of cloves
- B. Polymerized resin
- C. Lanolin
- D. Calcium Chloride
- E. Fixed vegetable or mineral oil

Choose the correct answer from the options given below:

- (A) A, B, C & D Only
- (B) A, B, D & E Only
- (C) B, C, D & E Only
- (D) A, B, C & E Only

62 Given below are two statements: one is labeled as Assertion A and the other is labeled as Reason R.

Assertion A: When Calcium Sulfate Hemihydrate is mixed with water, α - Hemihydrate crystals produce a much stronger & harder di-hydrate structure than that resulting from β Hemihydrate.

Reason R: β Hemihydrate crystals are more irregular in shape and porous in character & require more water.

In the light of the above statements, choose the correct answer from the options given below

- (A) Both A and R are true and R is the correct explanation of A
- (B) Both A and R are true but R is NOT the correct explanation of A
- (C) A is true but R is false
- (D) A is false but R is true

63 Match List I with List II

List I

- A. Vonkroff's fibres
- B. Tome's process
- C. Sharpey's fibres
- D. Tonofilaments

List II

- I. Cytoplasmic extension on ameloblasts
- II. Found in epithelial cells consist of cytokeratins, that anchor on desmosomes
- III. Large diameter collagen type III fibres, involved in dentin formation
- IV. Principal collagen fibre bundles of PDL embedded in cementum or bone

Choose the correct answer from the options given below:

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

64 Given below are two statements:

Statement I: The earliest histologic indication of tooth development is at day 14 of embryogenesis.

Statement II: Day 14 of embryogenesis is marked by a thickening of the epithelium where tooth formation will occur on the oral surface of the second branchial arch.

In the light of the above statements, choose the Correct answer from the options given below.

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

65 Histologically dental pulp is divided into:

- A. The odontoblastic zone
- B. Cell free zone of Weil
- C. Cell rich zone
- D. The core
- E. Granular layer of tomes

Choose the correct answer from the options given below:

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

66 Match List I with List II

List I (Tooth)

- A. Maxillary 1st Premolar
- B. Maxillary 1st Molar
- C. Maxillary Canine
- D. Maxillary 2nd Molar

List II (eruption age)

- I. 10-13 years
- II. 11-13 years
- III. 12-14 years
- IV. 6-7 years

Choose the correct answer from the options given below:

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

67 A 60-year-old male patient who is a diabetic and had recently Covid-19 infection, reported with multiple purulent sinus tracts over the roots of all maxillary teeth. On CT examination both sinuses were hazy. The most likely diagnosis for the patient would be:

- (A) Squamous cell carcinoma
- (B) Metastatic tumor
- (C) Mucormycosis
- (D) Tuberculous osteomyelitis

68 What condylar movement is seen as mandible moves in a pure protrusive movement without jaw opening, i.e. from inter-cuspal position to maximum protruded position

- (A) Translation
- (B) Rotation
- (C) Hinge
- (D) Medial and forward

69 The masseter muscle is innervated by which cranial nerve

- (A) 7th
- (B) 5th
- (C) 3rd
- (D) 4th

70 Which fossa on the permanent maxillary first molar is linear in shape?

- (A) Central fossa
- (B) Mesial triangular fossa
- (C) Distal triangular fossa
- (D) Distal fossa

71 Which of the following structures may be seen in association with Huguier's canal?

- (A) Stylo-mandibular ligament
- (B) Tympano-mandibular ligament
- (C) Sphenomandibular ligament
- (D) Discomalleolar ligament

- 72 If the root canal breaks up in the multiple tiny canals, it is referred as
 (A) Alpha system (B) Beta system
 (C) Delta system (D) Gamma system
- 73 In Treacher Collins syndrome there is:
 (A) Mongoloid palpebral fissure (B) Poorly developed or absent malar bones
 (C) Microstomia (D) Normal hair growth
- 74 Chipmunk facies is seen in
 (A) Thalassemia (B) Aplastic anaemia
 (C) Sickle cell anaemia (D) Pernicious anaemia
- 75 A histological subtype of Ameloblastoma with highest rate of recurrence is:
 (A) Plexiform Ameloblastoma (B) Desmoplastic Ameloblastoma
 (C) Follicular Ameloblastoma (D) Acanthomatous Ameloblastoma
- 76 The most likely diagnosis in a 23-year-old, mentally alert, male dwarf with disproportionate arm and leg to body growth, prominent forehead and retruded maxilla is:
 (A) Cretinism (B) Pituitary dwarfism
 (C) Acromegaly (D) Achondroplasia
- 77 Loose joint bodies are seen in:
 (A) Still's Disease (B) Osteoarthritis
 (C) Synovial chondromatosis (D) Rheumatoid arthritis
- 78 Component of alginate causing toxic epidermolysis necrolysis is:
 (A) Magnesium oxide
 (B) Phenolphthalein
 (C) Sodium fluorotitanate
 (D) Diatomaceous earth in concentration on more than 68%
- 79 The initial carious lesion has been divided into different zones based upon its histological appearance when longitudinal ground reactions are examined with microscope. Match the zones with their corresponding features.

List I

- A. Zone 1
 B. Zone 2
 C. Zone 3
 D. Zone 4

List II

- I. The body of the lesion. It is the area of greatest demineralization.
 II. Also known as translucent zone lies at the advancing front of the enamel lesion. First recognizable zone of alteration from normal enamel.
 III. Also known as the surface zone. This is relatively unaffected zone.
 IV. The dark zone lies adjacent & superficial to first zone. Also known as positive zone.

Choose the correct answer from the options given below:

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

- 80 Given below are two statements:
Statement I: Counting of silver binding nucleolar organizer (AgNOR) protein is useful as a prediction of the biological behavior of Oral Submucous Fibrosis.
Statement II: Silver binding nucleolar organizer proteins (AgNOR) bind more to proliferating cells of epithelial & hematopoietic origin than normal cells.
In the light of the above statements, choose the Correct answer from the options given below
(A) Both Statement I and Statement II are true
(B) Both Statement I and Statement II are false
(C) Statement I is correct but Statement II is false
(D) Statement I is incorrect but Statement II is true
- 81 Which syndromes are associated with hemihyperplasia of jaw?
A. Neurofibromatosis
B. Proteus syndrome
C. Parry-Romberg syndrome
D. McCune Albright syndrome
E. Pierre Robin syndrome
Choose the correct answer from the options given below:
(A) A, B, C, D & E
(B) A, B & D Only
(C) B, C & D Only
(D) A, C, D & E Only
- 82 Correct the sequence from beginning to the end for steps of wound healing of an extraction wound
A. Vasodilation
B. Mobilization of PMNS
C. Neoangiogenesis
D. Maturing granulation tissue
E. Proliferation of fibroblasts
Choose the correct answer from the options given below:
(A) A, B, E, C & D
(B) D, B, C, A & E
(C) B, D, C, A & E
(D) C, D, B, A & E
- 83 The teeth that show the greatest sexual dimorphism are
(A) Incisors
(B) Canines
(C) Premolars
(D) Molars
- 84 Cheiloscopy is the study of:
(A) Chemical reagents
(B) Lip prints
(C) Finger prints
(D) Palatal rugae
- 85 Hand, foot and mouth disease is caused by:
(A) Cytomegalovirus
(B) Coxsackievirus
(C) Herpes virus
(D) EBV

- 86 Complications of Herpes Zoster infection are:
 (A) Acute retinal necrosis (B) Post herpetic neuralgia
 (C) Pneumonitis (D) Encephalitis
 Choose the correct options:
 (A) A, D only (B) B, C, D only
 (C) A, B, C only (D) A, B, C, D
- 87 'Light Bulb-like' shape on a skull radiograph could be appreciated in which of the following conditions?
 (A) Treacher Collins syndrome (B) Cleidocranial dysplasia
 (C) Hemifacial microsomia (D) Crouzon syndrome
- 88 A 30-year-old pregnant lady in the first trimester of pregnancy is suffering from acute dental pain due to grossly carious tooth. The treatment of choice should be:
 (A) Analgesics and antibiotics should be prescribed and extraction postponed till delivery
 (B) Extraction of the offending tooth in an atraumatic manner
 (C) Only analgesics should be prescribed
 (D) Only antibiotics should be prescribed
- 89 The form of lichen planus with the highest malignant transformation rate:
 (A) Erosive (B) Reticular
 (C) Hypertrophic (D) Plaque
- 90 Given below are two statements:
 Statement I: Those images that project a 3d volume onto a 2d receptor, may produce a peripheral egg shell effect on projection of the image.
 Statement II: Egg shell effect is due to the fact that photons travelling through the periphery of a curved surface are attenuated more than those travelling at right angles to the surface.
 In the light of the above statements, choose the Correct answer from the options given below
 (A) Both Statement I and Statement II are true
 (B) Both Statement I and Statement II are false
 (C) Statement I is correct but Statement II is false
 (D) Statement I is incorrect but Statement II is true
- 91 Match the components of fixing & developing solutions with their function
- | List I | List II |
|-------------------|---------------------------|
| A. Clearing agent | I. Acetic Acid |
| B. Acidifier | II. Aluminum sulphate |
| C. Preservative | III. Ammonium sulphite |
| D. Hardener | IV. Ammonium thiosulphate |
- Choose the correct answer from the options given below:
 (A) A-I, B-II, C-III, D-IV (B) A-III, B-IV, C-I, D-II
 (C) A-III, B-II, C-IV, D-I (D) A-IV, B-I, C-III, D-II

92 Causes of Dark Radiographs are

- A. Excessive milliamperage
- B. Excessive peak kilovoltage
- C. Excessive time
- D. Excessive film fog
- E. Excessive fixation

Choose the correct answer from the options given below:

- (A) A, C, D & E Only
- (B) A, B, C, D & E
- (C) A, B & C Only
- (D) A & E Only

93 Match List I with list II

List I

- A. Macule
- B. Papule
- C. Bulla
- D. Nodule

List II

- I. Raised, solid lesion smaller than 1 cm in size
- II. Elevated fluid filled lesion and greater than 1 cm in size
- III. Lesion within the dermis or mucosa protruding above it forming characteristic dome shaped structure with depth up to 2 cm
- IV. Flat lesion with color change up to 1 cm in size that is not palpable

Choose the correct answer from the options given below:

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

94 The recommendations for dental health care workers at the time of Covid-19 pandemic are that they should wear N-95 mask, eye protection (goggles or face shield), gown and gloves:

- (A) During procedures that involve a sputtering or splashing of blood or body fluids
- (B) While waiting for patients to arrive
- (C) While having tea with coworkers
- (D) At all times after entering the facility

95 Oral hairy leukoplakia

- A. The most common HIV- associated oral mucosal lesion
- B. Histologic reactions reveals hyperkeratosis, acanthosis and koilocytosis
- C. Light microscopy reveals inflammatory cell infiltrate
- D. Positive staining for EBV DNA

Choose the correct answer from the options given below:

- (A) B, C & D Only
- (B) A, B, C & D
- (C) A, B & D Only
- (D) B & D Only

- 96 Given below are two statements:
 Statement I: A patient is classified having SLE, if 4 of the clinical & immunologic criteria are satisfied including at least one clinical & one immunologic criterion
 Statement II: Scarring alopecia is one of the suggestive symptoms for SLE.
 In the light of the above statements, choose the Correct answer from the options given below
 (A) Both Statement I and Statement II are true
 (B) Both Statement I and Statement II are false
 (C) Statement I is correct but Statement II is false
 (D) Statement I is incorrect but Statement II is true
- 97 Gold standard for diagnosing temporo-mandibular disorders is:
 (A) Magnetic Resonance Imaging (B) CT Scan
 (C) TMJ radiography (D) Clinical presentation
- 98 Optimum tipping force
 (A) 10-25gm (B) 25-45gm
 (C) 65-90gm (D) 35-60gm
- 99 All these teratogens are known to produce cleft lip and palate, EXCEPT
 (A) Aspirin (B) Cigarette smoke
 (C) Phenytoin (D) X-ray radiation
- 100 Which of the following are types of space maintainers?
 A. Band and loop appliance
 B. Distal shoe Appliance
 C. Lingual Arch Appliance
 D. Maxillary Space regainer appliance
 Options:
 (A) A, C & D only (B) B, C & D only
 (C) A & C only (D) A, B & C only
- 101 Lisp is associated with
 (A) Skeletal Class III (B) Anterior Openbite
 (C) Retroclined incisors (D) Pseudo Class III
- 102 The ratio of the width (golden proportion) of maxillary anterior teeth for best appearance should be
 (A) 50% of the preceding tooth (B) 62% of the preceding tooth
 (C) 75% of the preceding tooth (D) 42% of the preceding tooth

103 Only intramembranous bone formation is seen in

- A. Cranial vault
- B. Cranial Base
- C. Maxilla
- D. Mandible
- E. Nasal

Choose the correct answer from the options given below:

- (A) A, C & D Only
- (B) A, B, C, D & E
- (C) A, C, D & E Only
- (D) A, B, C & D Only

104 Match the basic properties of orthodontics wires with their definition

List I

- A. Stiffness
- B. Range
- C. Resilience
- D. Formability

List II

- I. Amount of permanent deformation that a wire can withstand before failing
- II. Energy storage capacity of the wire which is a combination of strength & springiness
- III. The distance that the wire will bend elastically before permanent deformation occurs
- IV. Proportional to the slope of the elastic portion of the force-deflection curve.

Choose the correct answer from the options given below:

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

105 Given below are two statements:

Statement I: In orthodontic tooth movement when two forces equal in magnitude and opposite in direction in the same line are applied, it is known as couple

Statement II: Couple force will produce pure rotation movement of tooth

In the light of the above statements, choose the Correct answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

106 Match the functional appliance with their type

List I

- A. Twin block appliance
- B. Bionator with expansion screw
- C. Frankel appliance
- D. Skeletally anchored Herbst appliance

List II

- I. Tissue borne
- II. Active tooth borne
- III. Hybrid appliance
- IV. Passive tooth borne

Choose the correct answer from the options given below:

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

- 107** Given below are two statements:
Statement I: Although cartilages of long bones have innate growth potential, yet neither the cartilage of the mandibular condyle nor the cartilaginous nasal septum is a determinant of jaw growth.
Statement II: Melvin Moss theorized that the growth of the face occurs as a response to functional needs and neurotrophic influences & is mediated by the soft tissue in which the jaws are embedded.
In the light of the above statements, choose the Correct answer from the options given below
(A) Both Statement I and Statement II are true
(B) Both Statement I and Statement II are false
(C) Statement I is correct but Statement II is false
(D) Statement I is incorrect but Statement II is true
- 108** The time dependent change measured after the setting of amalgam is
(A) Flow (B) Creep
(C) Hardness (D) Microscopic Expansion
- 109** Which of the following is the most accurate method of pulp vitality testing in tooth with undeveloped root apices?
(A) Electric pulp test (B) IOPA
(C) Cold test (D) Bite test
- 110** Regarding endodontic file, Batt tips are
(A) Cutting tips (B) Non cutting tips
(C) Partially cutting tips (D) Spiral tips
- 111** The major types of collagen found in pulp is
a. Type I
b. Type II
c. Type III
d. Type IV
e. Type V
Choose the correct option:
(A) Type I & II (B) Type I & III
(C) Type III & IV (D) Type II & V
- 112** The most common cause for failure of tooth colored inlays/onlays is
(A) Bulk fractures (B) Discoloration
(C) Marginal deterioration (D) Secondary caries
- 113** 1,1,1,2-Tetrafluoroethane is a chemical used for the purpose of:
(A) Pulp vitality testing (B) Enamel etching
(C) Dentine bonding (D) Intra canal medicament

- 114 Incidence of instrument fractures during an endodontic treatment is highest in
 (A) Middle third of roots of maxillary premolars
 (B) Apical third of roots of mandibular molars
 (C) Apical third of roots of mandibular premolars
 (D) Middle third of roots of mandibular molars
- 115 Which all are true in relation to using Ca(OH)_2 as an intracanal medicament:
 A. Residual Ca(OH)_2 can shorten the setting time of ZOE based endodontic sealers
 B. Ca(OH)_2 is not totally effective against *E. fecalis* and *Candida albicans*
 C. Removal of Ca(OH)_2 is usually incomplete
 D. Ca(OH)_2 can completely eradicate the bacteria from root canal because of its low pH
- Answer:
 (A) A, B, & C only (B) A, C, & D only
 (C) A, B, C, D (D) A & D only

- 116 Match the types of root canals with their correct description

Root Canals	sDescription
A. Type III	I. One canal leaves the pulp chamber and divides short of the apex into two separate, distinct canals with separate apical foramina.
B. Type IV	II. Two separate canals leave the pulp chamber, merge into the body by the root, and separate short of the apex to exit as two distinct canals.
C. Type V	III. One canal leaves the pulp chamber and divides into two in the root, the two then merge to exit as one canal.
D. Type VI	IV. Two separate distinct canals extend from the pulp chamber to the apex.

Choose the correct answer from the options given below:

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

- 117 What are the indications for the use of sealants?

- A. Recently erupted tooth
 B. Well coalesced fossae and wide grooves.
 C. Housing water supply is Fluoride deficient.
 D. Proximal caries
 E. Smooth surface caries

Choose the correct answer from the options given below:

- (A) B, C & E Only (B) B & C Only
 (C) A, D & E Only (D) A & E Only

118 Match the oral habitats with the predominant flora

Oral Habitats

- A. Non carious teeth
- B. Enamel caries
- C. Root caries
- D. Gingival crevices
- E. Buccal mucosa

Predominant Flora

- I. *S. mutans*
- II. *S. mitis*
- III. *S. sanguis*
- IV. Actinomyces
- V. Fusobacterium

Choose the correct answer from the options given below:

- (A) A-III, B-I, C-IV, D-V, E-II
- (B) A-II, B-I, C-V, D-IV, E-III
- (C) A-I, B-III, C-II, D-V, E-IV
- (D) A-III, B-II, C-I, D-IV, E-V

119 Mandatory for survival of a patient with mucormycosis is which of the following:

- (A) Drug therapy with at least two antifungal agents like liposomal amphotericin B and posaconazole
- (B) Debridement of necrotic tissue
- (C) Debridement of necrotic tissue along with two antibacterial agents
- (D) Debridement of necrotic tissue in combination with liposomal amphotericin B

120 Given below are two statements:

Statement I: Ceramics and polymers on the tooth surface undergo chemical corrosion.

Statement II: It occurs as a result of solubilization created by hydrogen bonding effects of water and locally high acidity.

In the light of the above statements, choose the Correct answer from the options given below.

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

121 Given below are two statements:

Statement I: Protein adsorption on the surface of dental material alters its behavior and reactivity.

Statement II: Water absorption into dental polymers affects their mechanical properties.

In the light of the above statements, choose the Correct answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

122 Given below are two statements:

Statement I: Liners are used primarily to provide thermal protection for the pulp & to supplement mechanical support for the restoration by distributing local stresses from the restoration across the underlying dentin.

Statement II: Bases are used primarily to provide a barrier to protect dentin from residual reactants diffusing out of a restoration or from oral fluids.

In the light of the above statements, choose the Correct answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

- 123 What is the mechanism of action of Sodium hypochlorite solution as intracanal irrigant solution?
- A. Saponification reaction → Organic & fat solvent
 - B. Neutralizing reaction → Neutralizes amino acids
 - C. Hydrochloric acid formation → Acts as oxidizer lead to amino acid degradation
 - D. Solvent reaction → Releasing chlorine that combines with proteins
 - E. Low pH → Interferes in cytoplasmic membrane integrity due to enzymatic inhibition
- Choose the correct answer from the options given below:
- (A) A, B & D only
 - (B) B & C Only
 - (C) A, D & E Only
 - (D) A & E Only

- 124 Match the design elements of endodontic instruments with their correct description

Instruments	Description
A. Flute	I. The surface with the greatest diameter that follows the groove as it rotates.
B. Cutting edge	II. Angle formed by the leading edge & radius of the file through the point of contact with the radicular wall.
C. Radial land	III. Groove in the working surface to collect debris.
D. Helical angle	IV. The angle the cutting-edge forms with the long axis of the file.
E. Rake angle	V. Large contact area between trailing and cutting edge with the radicular wall.

Choose the correct answer from the options given below:

- (A) A-II, B-I, C-V, D-IV, E-III
- (B) A-III, B-I, C-V, D-IV, E-II
- (C) A-I, B-III, C-II, D-V, E-IV
- (D) A-IV, B-II, C-I, D-III, E-V

- 125 Electric pulp testing shows false-positive response in the case of

- A. Partial pulp necrosis
- B. Highly anxious patient
- C. Contact with metal restoration
- D. Recently traumatized tooth
- E. Immature apex

Choose the correct answer from the options given below:

- (A) A, B & D only
- (B) A, B & C Only
- (C) A, D & E Only
- (D) A & E Only

- 126 Properties of MTA which makes it most widely used endodontic material

- A. Biocompatibility
- B. Sealing ability
- C. Hydrophilicity
- D. Radiolucency

Choose the correct answer from the options given below:

- (A) A, B & D only
- (B) A, D & E Only
- (C) A, B & C Only
- (D) A & E Only

127 Chances of vertical root fracture are higher in which type of endodontic posts?

- A. Threaded posts
- B. Unthreaded posts
- C. Parallel posts
- D. Tapered posts

Choose the correct answer from the options given below:

- (A) A only
- (B) A & C Only
- (C) B & C Only
- (D) A & D Only

128 C-shaped root canal system is MOST COMMONLY found in

- (A) Mandibular second premolar
- (B) Mandibular second molar
- (C) Mandibular canine
- (D) Mandibular central incisor

129 The most effective intracanal hemostatic agent during bleeding pulp exposure is:

- (A) 2% Chlorhexidine
- (B) 30% Hydrogen peroxide
- (C) Ferric sulfate
- (D) 1.5%-6% Sodium hypochlorite

130 Composite core with metal post is indicated when:

- (A) More than two-thirds of the coronal tooth structure is lost
- (B) More than one-thirds of the coronal tooth structure is lost
- (C) More than half of the coronal tooth structure is lost
- (D) More than three-fourths of the coronal tooth structure is lost

131 Given below are two statements:

Statement I: In extreme mandibular resorption cases, the margins of the mental foramen extend and have sharp edges 2–3 mm higher than the surrounding mandibular bone.

Statement II: In these cases the mental foramen may open near or directly at the crest of the residual bony process. The bony margins of the mental foramen are more dense and resistant to resorption than the bone anterior or posterior to the foramen.

In the light of the above statements, choose the Correct answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

132 The following are the secondary stress bearing areas for a complete denture:

- A. Rugae Area
- B. Residual alveolar ridge
- C. Maxillary tuberosity
- D. Mid palatal Raphe

Choose the correct answer from the options given below:

- (A) A Only
- (B) A & C Only
- (C) A, B, C & D
- (D) A, B & D Only

- 133** Stefan's law with respect to retention of complete denture states that
- A. Viscous force increases proportionally to increase in the viscosity of interposed liquid
 - B. Viscous force is inversely proportional to the distance between mucosa and denture
 - C. Viscous force increases proportionally to the square of the area of the opposing surfaces
 - D. Viscous force increases proportionally to the distance between mucosa and denture
- Choose the correct option:
- (A) A & B only
 - (B) A, B & C only
 - (C) A, C & D only
 - (D) A & D only

- 134** Muscles of modiolus are
- A. Risorius
 - B. Zygomaticus minor
 - C. Triangularis
 - D. Buccinator
 - E. Levator anguli oris
- Choose the correct answer from the options given below:
- (A) A, B, C, D & E
 - (B) A, C & E Only
 - (C) A, B, C & D Only
 - (D) A, C & D Only

- 135** All of the following are effective against anaerobic organisms, EXCEPT:
- (A) Metronidazole
 - (B) Meropenem
 - (C) Amoxicillin plus clavulanate
 - (D) Amikacin

- 136** What is a movement disorder that may render part of oral cavity sensitive to tactile sensation or, partially or wholly paralyze oral musculature?
- (A) Amyotrophic lateral sclerosis
 - (B) Dermatomyositis
 - (C) Orofacial dyskinesia
 - (D) Polymyositis

- 137** Match the margin designs for tooth preparation with their indications:
- | | |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>List I</p> <ul style="list-style-type: none"> A. No margin B. Chisel edge C. Bevel D. Shoulder | <p>List II</p> <ul style="list-style-type: none"> I. Occasionally on tilted teeth II. Facial margin of maxillary partial coverage restorations and inlay/only margins III. Is not recommended IV. Facial margin of metal ceramic crowns, complete ceramic crowns |
|----------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
- Choose the correct answer from the options given below:
- (A) A-I, B- II, C-III, D-IV
 - (B) A-III, B-I, C-II, D-IV
 - (C) A-II, B-I, C-III, D-IV
 - (D) A-I, B-III, C-IV, D-II

138 Given below are two statements:

Statement I: Zinc phosphate cements have a lower modulus of elasticity than do polycarboxylate cements, which exhibit relatively large plastic deformation.

Statement II: the retentive ability of polycarboxylate cement is more dependent on the taper of the preparation than is the retention with zinc phosphate cement.

In the light of the above statements, choose the Correct answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

139 While preparing a tooth for metal ceramic crown, there must be:

- A. 1.5 to 2 mm clearance in intercuspal position and all excursions
- B. 1.5-2 mm labial reduction
- C. 6 degree of convergence to facilitate path of insertion
- D. Shoulder must not extend lingual to proximal contact area
- E. Bevel should be supragingival as much as possible

Choose the correct answer from the options given below:

- (A) A, B, C, D & E
- (B) A, C & E Only
- (C) A, B, C & D Only
- (D) A & D Only

140 Contraindications of partial veneer crown

- A. Short teeth
- B. Thin teeth
- C. Bulbous teeth
- D. Non vital teeth
- E. Extensive destruction

Choose the correct answer from the options given below:

- (A) A, C & E Only
- (B) A, B, C & E Only
- (C) A, B, C, D & E
- (D) A, B, D & E Only

141 Given below are two statements:

Statement I: Healing abutment is a cover attached to the implant, that is used to maintain opening through the tissue until restoration is completed.

Statement II: Healing cap is a cover that is attached to the top of transmucosal abutment protecting internal threads and internal surface.

In the light of the above statements, choose the Correct answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

142 Match the terms with their definition:

List I

- A. Curve of occlusion
- B. Curve of Monson
- C. Curve of Spee
- D. Curve of Wilson

List II

- I. Anteroposterior curve
- II. The curvature of the cusps as projected on the frontal plane expressed in both arches
- III. Proposed ideal curve of occlusion in which each cusp and incisal edge touches or conforms to a segment of the surface of a sphere 8 inches in diameter with its center in the region of the glabella
- IV. The average curve established by the incisal edges and occlusal surfaces of the anterior and posterior teeth in either arch

Choose the correct answer from the options given below:

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

143 Match the Kennedy's classification with their indications:

List I

- A. Class I
- B. Class II
- C. Class III
- D. Class IV

List II

- I. A unilateral edentulous area with natural teeth remaining both anterior and posterior to it.
- II. Bilateral edentulous areas located posterior to the natural teeth.
- III. A single, but bilateral (crossing midline) edentulous area located anterior to the remaining natural teeth.
- IV. A unilateral edentulous area located posterior to the remaining teeth.

Choose the correct answer from the options given below:

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

144 The objectives of surveying the diagnostic casts are:

- A. To identify the guiding planes for placement and removal of partial denture.
- B. To determine whether tooth and bony areas of interferences will need to be eliminated.
- C. To record the centric relation of maxilla to the mandible in rest position.
- D. To locate and measure the areas of the teeth that may be used for retention.

Choose the correct answer from the options given below:

- (A) A, C & D Only
- (B) A, B & D Only
- (C) A, B, C & D
- (D) B, C & D Only

- 145 The angle the external finishing line forms with the major connector should be:
 (A) $>90^\circ$ (B) $<90^\circ$
 (C) 180° (D) $>110^\circ$
- 146 With respect to direct retainers for distal extension partial dentures:
 Statement I: They must be able to flex or disengage when the denture moves away from the tissues under function.
 Statement II: The retainers may act as stress breaker.
 In the light of the above statements, choose the Correct answer from the options given below
 (A) Both Statement I and Statement II are true
 (B) Both Statement I and Statement II are false
 (C) Statement I is correct but Statement II is false
 (D) Statement I is incorrect but Statement II is true
- 147 Statement I: The majority of RPD castings require multiple spruing using 8-12 gauge round wax shapes for main sprues and 12-18 gauge round wax shapes for auxiliary sprues.
 Statement II: The use of single sprues in RPD castings is limited to those maxillary frameworks in which because of the presence of a palatal plate it is impossible to locate multiple sprues centrally.
 In the light of the above statements, choose the Correct answer from the options given below
 (A) Both Statement I and Statement II are true
 (B) Both Statement I and Statement II are false
 (C) Statement I is correct but Statement II is false
 (D) Statement I is incorrect but Statement II is true
- 148 Intraoral characteristic finding for rheumatoid arthritis is:
 (A) Deep Bite (B) Occlusal wear
 (C) Slide in Centric (D) Open bite
- 149 Match the following
- | List – I | List – II |
|--------------------------------------|-----------------|
| A. Ester local anaesthetic solution | I. Prilocaine |
| B. Amido linked anaesthetic solution | II. Sevoflurane |
| C. Intravenous anaesthetic | III. Tetracaine |
| D. Inhalational anaesthetic | IV. Propofol |
- Choose the correct answer from the options given below:
 (A) A-I, B-III, C-IV, D-II (B) A-IV, B-III, C-II, D-I
 (C) A-III, B-I, C-IV, D-II (D) A-I, B-III, C-II, D-IV

- 150** In children while administering local anaesthesia
- A. Accessory innervations of mandible are more than adults
 - B. The mandibular foramen is situated at a level further below the occlusal plane and more proximal than in an adult
 - C. The mandibular foramen is situated at a level further up the occlusal plane and more distal than in an adult
 - D. Inferior alveolar nerve block is contraindicated in children

Choose the correct answer from the options given below:

- (A) A, B & D Only
 - (B) B only
 - (C) A, B & C Only
 - (D) A & B Only
- 151** Wolff's Law states that in order to meet the functional demands, the trabeculae of the jaw bone reorients:
- (A) Along lines of stress
 - (B) Perpendicular to line of stress
 - (C) Tangential to the lines of stress
 - (D) At an acute angle to the lines of stress
- 152** After implant placement maturation of the implant bone interface & supporting bone requires
- (A) 4 months
 - (B) 6 months
 - (C) 8 months
 - (D) 12 months

- 153** Given below are two statements:

Statement I: An osteoinductive material is capable of inducing the transformation of undifferentiated cells into osteoblasts and chondroblasts.

Statement II: An osteoconductive material assists or stimulates bone growth in areas where it disappears.

In the light of the above statements, choose the Correct answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

- 154** Match the wall defects with their examples

List – I

- A. 5 wall defect
- B. 4 wall defect
- C. 2 wall to 3 wall defect
- D. One wall defect

List – II

- I. Healthy tooth extraction
- II. Periodontal infected tooth extraction
- III. Onlay graft
- IV. Loss of labial wall on extraction site

Choose the correct answer from the options given below:

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

- 155** Choose the correct option regarding trigeminal neuralgia
 A. It has a predilection for the left side
 B. Occurs most frequently in the 6th decade of life and more frequently in men
 C. Rapidly provoked by gentle stimulation over trigger zone
 D. No paralysis of muscle is seen
 Choose the correct answer from the options given below:
 (A) A, B & D Only (B) B only
 (C) A, B & C Only (D) C & D Only
- 156** Given below are two statements:
 Statement I: During normal bone healing osteoblasts are derived from monocytes precursor cells.
 Statement II: Osteoclasts on the other hand are derived from periosteum and endosteum.
 In the light of the above statements, choose the correct answer from the options given below
 (A) Both Statement I and Statement II are true
 (B) Both Statement I and Statement II are false
 (C) Statement I is correct but Statement II is false
 (D) Statement I is incorrect but Statement II is true
- 157** Which of the following statements regarding autoclaving are true?
 A. Moist heat is more efficient than dry heat as it is effective at much lower temperature & require less time
 B. Increasing pressure increases the boiling point of water
 C. Moist heat tends to dull the instruments
 D. Spore tests should be done daily to judge effectiveness of the autoclave
 Choose the correct answer from the options given below:
 (A) A, B, C & D (B) B & C only
 (C) A, B & C Only (D) C & D Only
- 158** Match the instruments with usage
- | Instruments | Usage |
|--------------------------------|----------------------------------------------------|
| A. Austin retractor | I. Loosen soft tissue from teeth before extraction |
| B. Woodson periosteal elevator | II. Holding the tissue |
| C. Weider retractor | III. Retracting cheek, tongue or flap |
| D. Adson's forceps | IV. Retracting tongue |
- Choose the correct answer from the options given below:
 (A) A-I, B-IV, C-II, D-III (B) A-I, B-II, C-III, D-IV
 (C) A-III, B-I, C-IV, D-II (D) A-III, B-II, C-I, D-IV
- 159** Which of the following is true of suturing?
 A. The most important function is coapting the margin
 B. Resorbable sutures evoke less inflammatory reaction than non-resorbable sutures
 C. When passing through soft tissue of mucosa, needle should enter the surface of tissue at an acute angle
 D. The minimal amount of tissue between the suture & the edge of the flap should be 3mm
 Choose the correct answer from the options given below:
 (A) A, C & D only (B) B & D only
 (C) A, B, C & D (D) A & D Only

160 Choose the factors that make an impaction surgery less difficult

- A. Thin follicle
- B. Mesioangular position
- C. Long, thin roots
- D. Class A depth
- E. Narrow periodontal ligament

Choose the correct answer from the options given below:

- (A) B, D & E Only
- (B) A, C & D only
- (C) A, B & D only
- (D) A & D Only

161 Palatorrhaphy is:

- (A) Surgical removal of prominent mid palatal raphe
- (B) Prosthetic obturation of missing mid palatine raphe
- (C) Surgical repair of cleft palate
- (D) A scan done to plan treatment of palatal surgery

162 Match the following

Structure

- A. Buccal plate
- B. Lingual plate
- C. Interimplant distance
- D. Inferior alveolar canal
- E. Mental nerve

Minimum required distance

between implant & indicated structure

- I. 1 mm
- II. 5mm
- III. 2mm
- IV. 0.5mm
- V. 3mm

Choose the correct answer from the options given below:

- (A) A-I, B-IV, C-II, D-III, E-V
- (B) A-IV, B-I, C-V, D-III, E-II
- (C) A-V, B-IV, C-III, D-I, E-II
- (D) A-III, B-II, C-V, D-IV, E-I

163 During extraction of tooth by forceps:

- A. Forceps should be held near the ends of the handles to gain maximum mechanical advantage
- B. Forceps should be held near the midway up the handle to gain maximum tactile reusation
- C. Forceps should be held near the ends of the handle to gain maximum tactile reusation
- D. Forceps should be held near the midway up the handles to gain maximum mechanical advantage

Choose the correct answer from the options given below:

- (A) A Only
- (B) A, B, C & D
- (C) B & D only
- (D) A, C & D Only

164 A patient came with a history of sharp lancinating pain on right side of face, not relieved by NSAIDs. What will be the most likely diagnosis?

- (A) Acute pulpitis
- (B) Dry socket
- (C) Cracked tooth syndrome
- (D) Trigeminal neuralgia

- 165 Marginal resection means
 (A) Resection of tumor without disruption of continuity of bone
 (B) Resection of tumor by removing full thickness of bone
 (C) Resection of tumor with removal of adjacent lymph nodes
 (D) Resection of tumor with removal of adjacent lymph nodes & affected soft tissue
- 166 Lip switch procedure is also called as:
 (A) Dean's alveoloplasty (B) Submucosal vestibuloplasty (Obwegeser's)
 (C) Labial frenectomy (D) Transpositional flap vestibuloplasty
- 167 Most preferred incision for removal of palatal tori
 (A) W incision (B) Y incision
 (C) V incision (D) Double Z plasty
- 168 Leukoplakia of which of the sites has maximum propensity of having dysplastic changes?
 (A) Buccal mucosa (B) Tongue
 (C) Floor of mouth (D) Lower lip
- 169 Which of the following fractures has the least tendency of displacement?
 (A) Ramus (B) Angle
 (C) Body (D) Symphysis
- 170 Critical Survival time of periodontal ligament cells extra orally is:
 (A) Up to 30 minutes (B) More than 90 minutes
 (C) Up to 60 minutes (D) More than 60 minutes
- 171 Which of the following organism is an obligate periphyte?
 (A) Poryphyromonas gingivalis (B) Treponema pallidum
 (C) Fusobacterium (D) Streptococcus mutans
- 172 Topical administration of which of the following, in the form of toothpaste may decrease the severity of cyclosporin induced gingival enlargement?
 (A) Amoxicillin (B) Azithromycin
 (C) Metronidazole (D) Tetracycline
- 173 The fibres of the periodontal ligament which provide the maximum resistance to vertical masticatory forces are:
 (A) Trans-septal (B) Oblique
 (C) Apical (D) Horizontal
- 174 Predominant immunoglobulin in sulcular fluid is
 (A) Ig M (B) Ig A
 (C) Ig G (D) Ig E

- 175 McCall's festoons:
(A) Also called Stillman's clefts (B) Due to poor oral hygiene
(C) Congenital abnormality (D) Due to trauma from occlusion

176 Common HIV associated periodontal diseases are:

- A. Linear gingival erythema
- B. Necrotizing ulcerative gingivitis
- C. Necrotizing ulcerative periodontitis
- D. Juvenile periodontitis

Choose the correct answer from the options given below:

- (A) A, B & C Only (B) B, C & D Only
- (C) A, B, C & D (D) B & C Only

177 Match List I with List II

List I

- A. Xenograft
- B. Allograft
- C. Alloplast
- D. Autogenous bone graft

List II

- I. Decalcified freeze-dried bone graft
- II. Kiel bone
- III. Osseous coagulum
- IV. Calcium phosphate-based ceramics

Choose the correct answer from the options given below:

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

178 Sulcular epithelium

- A. Is thin non-keratinized stratified squamous epithelium
- B. Extends from the junctional epithelium to the crest of the gingival margin
- C. Shows presence of rete pegs
- D. Has the potential to keratinize

Choose the correct answer from the options given below:

- (A) A, B & D Only (B) B, C & D Only
- (C) A, B, C & D (D) B & C Only

179 Given below are two statements:

Statement I: One to three days after periodontal flap surgery epithelial cells migration starts over the border of the flap.

Statement II: One week after surgery epithelial attachment to the root is established by collagen fibres parallel to the tooth surface without any basal lamina intervening

In the light of the above statements, choose the Correct answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

180 Match the Gracey curettes with their respective area

List I

- A. Gracey curettes #13-14
- B. Gracey curettes #1-2
- C. Gracey curettes #7-8
- D. Gracey curettes #5-6

Choose the correct answer from the options given below:

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

List II

- I. Facial and lingual surface of posterior teeth
- II. Anterior teeth
- III. Distal surface of the posterior teeth
- IV. Anterior and premolar teeth

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

181 Match the following

Basic Germ Layers

- A. Ectoderm
- B. Mesoderm
- C. Endoderm

Choose the correct answer from the options given below:

- (A) A-I, B-II, C-III
- (C) A-II, B-III, C-I

Derivatives

- I. Thyroid Gland
- II. Periodontal ligament
- III. Sinus epithelium

- (B) A-II, B-I, C-III
- (D) A-III, B-II, C-I

182 Meckel's Cartilage disappears by

- (A) 20th week of Intrauterine life
- (B) 24th week of intrauterine life
- (C) 28th week of intrauterine life
- (D) 30th week of intrauterine life

183 Broadbent phenomenon in mixed dentition is also known as

- (A) Leeway space of Nance
- (B) Curve of Spee
- (C) Molar shifts
- (D) Ugly duckling stage

184 Given below are two statements:

Statement I: The enamel and dentin are less mineralized in primary teeth as compared to permanent teeth.

Statement II: The enamel rods are directed occlusally in cervical area in primary teeth whereas they are directed gingivally in cervical area in permanent teeth.

In the light of the above statements, choose the Correct answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

185 Permanent teeth may show presence of small pigmented hypoplastic areas as a reaction to injury to a permanent tooth bud. This is known as:

- (A) Epstein pearls
- (B) Shell teeth
- (C) Turner teeth
- (D) Hutchinson's teeth

186 Which of the following agents are used as topical fluorides in dental clinics?

- a. Sodium fluoride
- b. Stannous fluoride
- c. Acidulated phosphate fluoride
- d. Silver diamine fluoride

Choose the correct option:

- (A) A, B & C only
- (B) A, B, C & D
- (C) A & B only
- (D) A & C only

187 Given below are two statements:

Statement I: The most favourable dental arch pattern is when the leeway space is excessive (i.e. the combined size of the unerupted canine and pre-molars is smaller than the available area space).

Statement II: The leeway space differentiated between the two arches allows the first permanent molars to move mesially relatively more in the maxillary arch than in the mandibular arch.

In the light of the above statements, choose the Correct answer from the options given below:

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

188 Clinical significance of natal and neonatal teeth

- A. Can induce deformity of mutilation of tongue
- B. Can cause dehydration
- C. Can cause growth retardation
- D. Can induce refusal to feed
- E. Can cause cleft lip

Choose the correct answer from the options given below:

- (A) A, B, C, D & E
- (B) A, B, C & E Only
- (C) A, B, C & D Only
- (D) B, C, D & E Only

189 Dens connatalis is a synonym of

- (A) Neonatal teeth
- (B) Ankylosed teeth
- (C) Teeth within teeth
- (D) Taurodontism

190 Match the following

Teeth

- A. Permanent Maxillary Lateral Incisor
- B. Permanent Mandibular 2nd Molar
- C. Permanent Maxillary Canine
- D. Permanent Maxillary 1st Molar

Enamel complexes

- I. 4-5 years
- II. 6-7 years
- III. 2.5-3 years
- IV. 7-8 years

Choose the correct answer from the options given below:

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

191 Match the following

Caries activity test

- A. Colorimetric Snyder Test
- B. Dip Slide Test
- C. Fosdick Calcium dissolution test
- D. ORA Test

Principle

- I. Based on oxygen depletion by micro-organisms in expectorated milk samples
- II. Measures the milligram of powdered enamel dissolved in 4 hours by acid formed when patient saliva is mixed with glucose and powdered enamel
- III. Estimates the levels of *S. mutans* in saliva
- IV. Measures the ability of salivary microorganism to form organic acids from a carbohydrate medium.

Choose the correct answer from the options given below:

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

192 Match the following

List – I

- A. Gingival Index
- B. CPI (Community Periodontal index)
- C. CPITN (Community Periodontal Index of Treatment needs)
- D. PDI (Periodontal Disease Index)

List – II

- I. Primarily a screening procedure to survey and evaluate periodontal treatment needs
- II. Measurement of level of periodontal attachment related to cemento-enamel junction of teeth
- III. For assessing severity of gingivitis and its location in four possible areas
- IV. Measurement of loss of attachment and elimination of treatment need

Choose the correct answer from the options given below:

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

193 All are destructive methods of analyzing implant stability, EXCEPT:

- (A) Cutting torque test
- (B) Tensional test
- (C) Push out/pull out test
- (D) Histomorphologic research

194 Given below are two statements regarding categories of personnel according to risk of infection:
Statement I: ADA and OSHA guidelines advise that it is mandatory for all staff in Category I, Category II, Category III and dentists to be trained in infection control.

Statement II: OSHA requires that employers make Hepatitis B vaccination available without cost to their employees who may be exposed to blood and other infectious materials.

In the light of the above statements, choose the Correct answer from the options given below

- (A) Both Statement I and Statement II are true
- (B) Both Statement I and Statement II are false
- (C) Statement I is correct but Statement II is false
- (D) Statement I is incorrect but Statement II is true

195 The constituents of tobacco are

- A. Carbon monoxide
- B. Tar
- C. Radioactive compound Polonium
- D. 1, 3 Butadiene

Choose the correct answer from the options given below:

- (A) A, B & D Only
- (B) A, B, C & D
- (C) A, B & C Only
- (D) A & B Only

196 Health consequences of tobacco use:

- A. Tobacco use slows down healing after Dental Surgery
- B. Smokeless tobacco use is a cause of cardiovascular disease
- C. Cigarette smoking can be a cause of congenital cleft lip and palate
- D. Use of chewing tobacco can lead to pre-cancerous lesions of Lichen Planus

Choose the correct answer from the options given below:

- (A) A, B & C Only
- (B) A, B, C & D
- (C) A, B & D Only
- (D) A & B Only

197 First step in public health procedure is

- (A) Analysis of program
- (B) Planning of program
- (C) Survey
- (D) Appraisal

198 Which of the following index is done for Calculus assessment?

- (A) Czechoslovakian index
- (B) Moller's index
- (C) Volpe-Manhold index
- (D) Stone's index

199 Which of the following has been declared by the WHO as one of the top 10 global public health threats facing humanity, and which occurs due to irrational use of drugs?

- (A) Pharmaceutical waste in cities
- (B) Environmental pollution due to drugs
- (C) Global warming due to excessive use of inhaled medications
- (D) Antimicrobial resistance

200 The term prevalence is used to indicate

- (A) New cases only
- (B) Old cases only
- (C) New & old cases
- (D) New cases per unit time

SPACE FOR ROUGH WORK

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