

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

MDS Entrance Test – 2012
QUESTION BOOKLET
Paper — I (Pre Clinical and Para Clinical)

Roll No.

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(Enter your Roll Number in the above space)

Series

Booklet No.

A

210261

Time Allowed : 2 Hours

Max. Marks : 150

INSTRUCTIONS :

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

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

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

SEAL

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1. The Spinal Cord in adult extends from foramen magnum to lower border of _____ vertebra.
- (1) T11 (2) T12
(3) L1 (4) L2
2. All are derivatives of the second Pharyngeal Arch EXCEPT
- (1) Stapes (2) Styloid process
(3) Lesser cornua of hyoid (4) Lower part of body of hyoid
3. All are branches of external carotid artery EXCEPT
- (1) Inferior thyroid (2) Ascending pharyngeal
(3) Posterior auricular (4) Superficial temporal
4. All muscles of the soft palate are supplied by cranial accessory nerve EXCEPT
- (1) Levator palati (2) Tensor palati
(3) Musculus uvuli (4) Palatoglossus
5. The roof of the inferior horn of lateral ventricle is formed by all EXCEPT
- (1) Tail of the caudate nucleus (2) Stria terminalis
(3) Tapetum (4) Thalamostriate vein
6. Recurrent laryngeal nerve supplies all EXCEPT
- (1) Posterior cricoarytenoid (2) Lateral cricoarytenoid
(3) Inter arytenoid (4) Cricothyroid
7. All structures pass through superior orbital fissure EXCEPT
- (1) Anterior ethmoidal nerve (2) Lacrimal nerve
(3) Inferior ophthalmic vein (4) Nasociliary nerve
8. The _____ sinus does not open into middle meatus.
- (1) Frontal (2) Maxillary
(3) Sphenoidal (4) Anterior ethmoidal

9. Pain sensation from head and neck reaches ————— nucleus of thalamus.
- | | |
|--------------------------|-------------------------|
| (1) Ventroposterolateral | (2) Ventroposteromedial |
| (3) Anterior | (4) Medial |
10. Upper Motor Neuron lesion leads to all EXCEPT
- | | |
|-----------------------------------|----------------------------------|
| (1) Rigidity | (2) Loss of superficial reflexes |
| (3) Exaggeration of deep reflexes | (4) Flaccid paralysis |
11. Lymphatics from the tip of the tongue go to ————— lymph nodes.
- | | |
|----------------------|---------------------|
| (1) Sub mental | (2) Submandibular |
| (3) Jugulo-digastric | (4) Jugulo-omohyoid |
12. Adenohypophysis contains all EXCEPT
- | | |
|----------------|------------------|
| (1) Acidophils | (2) Basophils |
| (3) Pituicytes | (4) Chromophobes |
13. Median Atlanto-occipital joint is a ————— joint.
- | | |
|---------------|----------------|
| (1) Pivot | (2) Fibrous |
| (3) Ellipsoid | (4) Condylloid |
14. Parotid duct pierces
- | | |
|-----------------------|----------------------|
| (1) Masseter | (2) Medial pterygoid |
| (3) Lateral pterygoid | (4) Buccinator |
15. Dangerous area of scalp is
- | | |
|--------------------------|----------------------------|
| (1) Subcutaneous tissue | (2) Epicranial aponeurosis |
| (3) Loose areolar tissue | (4) Pericranium |
16. Bile acids are derived from
- | | |
|-------------------|---------------------|
| (1) Phospholipids | (2) Triacylglycerol |
| (3) Fatty acids | (4) Cholesterol |

17. Respiratory distress syndrome in premature newborns is caused due to the deficiency of
- (1) Sphingomyelin (2) Ganglioside
(3) Lecithin (4) Triacylglycerol
18. Metabolic Acidosis is **NOT** seen in
- (1) Uremia (2) Diabetic ketosis
(3) Excessive vomiting (4) Salicylate poisoning
19. Which one of the following is **NOT** a lipotropic factor?
- (1) Choline (2) Betaine
(3) Methionine (4) Phenylalanine
20. Transport of glucose from intestinal lumen to mucosal cells is coupled with diffusion of
- (1) Na^+ (2) K^+
(3) Cl^- (4) HCO_3^-
21. The patients of sickle cell anaemia are resistant to
- (1) Malaria (2) Filaria
(3) Kala azar (4) Trypanosomiasis
22. Which one of the following immunoglobulin is involved in allergic reactions of body?
- (1) IgA (2) IgD
(3) IgE (4) IgG
23. Which one of the following protein is used as reference protein in assessment of its quality?
- (1) Meat protein (2) Egg protein
(3) Milk protein (4) Fish protein
24. Western blot technique is used for identification of
- (1) RNA (2) DNA
(3) Carbohydrate (4) Protein

25. Which one of the following element is involved in wound healing?
- (1) Calcium (2) Sodium
(3) Zinc (4) Magnesium
26. Plasma calcium is influenced by all the following EXCEPT
- (1) Calcitriol (2) Parathyroid hormone
(3) Calcitonin (4) Thyroxine
27. Beri-beri is caused due to the deficiency of vitamin
- (1) Niacin (2) Thiamine
(3) Riboflavin (4) Pyridoxine
28. Increased levels of serum acid phosphatase is seen in
- (1) Rickets (2) Hepatoma
(3) Prostatic cancer (4) Excess phosphate intake
29. Function of HDL cholesterol is the transport of
- (1) Exogenous triacylglycerol to various tissues
(2) Endogenous triacylglycerol to various tissues
(3) Cholesterol from liver to peripheral tissues
(4) Cholesterol from peripheral tissues to liver
30. Concentration of the following is higher in the intracellular fluid than in the extracellular fluid
- (1) Sodium (2) Potassium
(3) Chloride (4) Bicarbonate
31. The additional shrinkage that occur during the setting of ethyl silicate investment is
- (1) Wet shrinkage (2) Dry shrinkage
(3) Setting shrinkage (4) Green shrinkage

32. The procedure through which the abrasion instrument is run against a harder abrasive block until the abrasive instrument rotates in the hand piece without eccentricity or run-out when placed on the substrate is
- (1) Toning (2) Grooming
(3) Truing (4) Dressing
33. The slope of the straight-line region (elastic range) of the stress-strain graph is a measure of the relative
- (1) Compressibility (2) Elasticity
(3) Rigidity (4) Flexibility
34. Elastic modulus of a material is independent of which property of a material
- (1) Ductility (2) Malleability
(3) Elasticity (4) None of the above
35. Dustless alginate is product by the incorporation of certain chemical onto the alginate powder to agglomerate the particle
- (1) Calcium sulphate (2) Xylene
(3) Glycerine (4) Phosphene
36. Modulus of rupture is also known as
- (1) Yield strength (2) Shear strength
(3) Flexure strength (4) Compressive strength
37. The mathematical formula for obtaining tensile stress, where P – applied load, D – diameter and t – thickness is
- (1) $2P + \pi Dt$ (2) $2P \times \pi Dt$
(3) $P \times Dt$ (4) $P + Dt$
38. The phenomenon of permanent premature fracture of a dental prosthesis by stress values well below the ultimate tensile strength is known as
- (1) Impact failure (2) Cold failure
(3) Fatigue failure (4) Dynamic failure

39. The amount of elastic and plastic deformation energy required to fracture a material is known as
- (1) Weakness
 - (2) Toughness
 - (3) Brittleness
 - (4) Adiabatic energy
40. An alloy that contains three chemical elements is called
- (1) Ternary alloy
 - (2) Tertiary alloy
 - (3) Tripartite alloy
 - (4) Core alloy
41. In a binary alloy system, the temperature at which the first solid forms
- (1) Solidus temperature
 - (2) Eutectic temperature
 - (3) Bitectic temperature
 - (4) Liquidus temperature
42. The eutectic reaction, for example a Silver-Copper system, is written schematically as
- (1) Solid \rightarrow α solid solution + γ solid solution
 - (2) Liquid \rightarrow α solid solution + β solid solution
 - (3) Solid \rightarrow α solid solution + β solid solution
 - (4) Liquid \rightarrow α liquid solution + β solid solution
43. Ability of a polymer to behave as an elastic solid and as a viscous liquid is known as
- (1) Thermoelasticity
 - (2) Pseudoplasticity
 - (3) Viscoelasticity
 - (4) Thermoplasticity
44. Stage of polymerization during which polymer chains continue to grow to high molecular weights is
- (1) Propagation
 - (2) Induction
 - (3) Initiation
 - (4) Stabilization
45. A polymerization process in which the polymer chain grows simultaneously and a reaction by-product is formed with associated shrinkage is known as
- (1) Addition reaction
 - (2) Condensation reaction
 - (3) Accelerator reaction
 - (4) Gelation reaction

46. The following statements are true about the bacterial capsule EXCEPT
- (1) It plays a role in adherence of bacteria to surfaces in their environment
 - (2) It protects the organism from phagocytosis
 - (3) It protects the bacteria from lytic enzymes found in nature
 - (4) Its demonstration is possible by Quellung reaction
47. Which statement is NOT true for endotoxin?
- (1) Component of gram negative cell wall
 - (2) Weakly antigenic
 - (3) Can be toxoided
 - (4) Heat stable
48. Which of the following is responsible for mucormycosis?
- | | |
|-----------------|-------------------------|
| (1) Aspergillus | (2) Rhizopus |
| (3) Sporothrix | (4) Trichophyton rubrum |
49. In the Coombs and Gel classification of hypersensitivity reactions Type IV reaction involves
- (1) IgG and IgM antibodies combining with antigen and causing complement mediated lysis
 - (2) Immune complex deposition in the vasculature
 - (3) Granuloma formation
 - (4) Antigenic cross linking of IgE fixed to mast cells resulting in degranulation and histamine release
50. A heat labile serum component which has the ability to lyse RBCs is
- | | |
|------------------------|----------------|
| (1) C reaction protein | (2) Complement |
| (3) Lysozyme | (4) Haemolysin |
51. Drum stick appearance is characteristic of
- | | |
|-----------------------------|---------------------------|
| (1) Clostridium difficile | (2) Clostridium botulinum |
| (3) Clostridium perfringens | (4) Clostridium tetani |

52. All the following are true of anaerobic infections EXCEPT
- (1) Show good response to aminoglycosides
 - (2) Have foul smelling exudates
 - (3) Are associated with mucosal surfaces
 - (4) Are usually endogenous in origin
53. Bacteroides, Prevotella, Fusobacterium are
- (1) Sporing anaerobic bacilli
 - (2) Non sporing anaerobic bacilli
 - (3) Sporing anaerobic cocci
 - (4) Non sporing anaerobic cocci
54. The commonest bacterial cause of osteomyelitis is
- (1) *Staphylococcus aureus*
 - (2) *Streptococcus pneumoniae*
 - (3) *Meningococcus*
 - (4) *Streptococcus Group D*
55. A patient presented with a facial abscess that had expanded into the contiguous skin surface. Sinus tracts to the skin surface were evident, as was a purulent discharge. The pus was carefully examined and yellow granules were observed. An acid-fast smear revealed no acid-fast bacilli. The patient most likely has
- (1) Streptomyces
 - (2) Nocardiosis
 - (3) Staphylococcal infection
 - (4) Actinomycosis
56. Hard chancre is characteristic of
- (1) Primary syphilis
 - (2) Secondary syphilis
 - (3) Latent syphilis
 - (4) Tertiary syphilis
57. Sterilisation temperature in a Hot air oven is
- (1) 121°C
 - (2) 160°C
 - (3) 121°F
 - (4) 160°F
58. On the basis of Lancefield grouping beta haemolytic streptococci are divided into
- (1) 20 groups
 - (2) 18 groups
 - (3) 16 groups
 - (4) 14 groups

59. Acid fast staining is used to stain all of the organism EXCEPT
- (1) *Mycobacterium tuberculosis* (2) *Mycobacterium leprae*
(3) Bacterial spores (4) *Micrococcus spp*
60. Catalase test is used to distinguish
- (1) *Streptococcus pyogenes* and *Staphylococcus aureus*
(2) *Staphylococcus epidermidis* from *Staphylococcus aureus*
(3) *Enterococcus* from *Streptococcus pneumoniae*
(4) *Streptococcus pyogenes* from *Streptococcus viridans*
61. In Hemodialysis associated amyloid, the following protein is deposited
- (1) AL (2) AA
(3) ATTR (4) β 2 Microglobulin
62. The following proteins are present in the intrinsic pathway of coagulation cascade
- (1) XI, VIII, Prekallkrein, HMWK
(2) XII, VIII, Thromboplastin, Prekallikrein
(3) XII, XI, VII, Prekallikrein
(4) XII, VII, Prekallikrein, HMWK
63. Hypercalcemia and Metastatic calcification occurs because of all the following EXCEPT
- (1) Hepatic failure
(2) Increased secretion of parathyroid hormone
(3) Destruction of bony tissue
(4) Renal failure
64. Which one of the following group of organs are affected in mercuric chloride poisoning?
- (1) Stomach, Kidney, Colon (2) Spleen, Stomach, Pancreas
(3) Liver, Spleen, Heart (4) Brain, Lungs, Urinary Bladder
65. Apoptosis is
- (1) Programmed cell death (2) Intracytoplasmic accumulation
(3) Degenerative change (4) Neoplastic change in cell

66. All the following are examples of preformed chemical mediators EXCEPT
- | | |
|--------------------|-----------------------|
| (1) Histamine | (2) Lysosomal enzymes |
| (3) Prostaglandins | (4) Serotonin |
67. Patients with sickle cell disease are predisposed to osteomyelitis with which organism?
- | | |
|-------------------|--------------------|
| (1) Pneumococcus | (2) Staphylococcus |
| (3) Streptococcus | (4) Salmonella |
68. The richest source of Histamine are
- | | |
|-----------------|-----------------|
| (1) Basophils | (2) Neutrophils |
| (3) Eosinophils | (4) Mast cells |
69. The characteristic cytogenetic abnormality seen in AML M3 is
- | | |
|------------------|----------------|
| (1) t (11q23; v) | (2) inv (16) |
| (3) t (15 : 17) | (4) t (8 : 21) |
70. Warburg effect refers to
- | | |
|-------------------------------|-----------------------------|
| (1) Anaerobic gluconeogenesis | (2) Aerobic gluconeogenesis |
| (3) Aerobic glycolysis | (4) Anaerobic glycolysis |
71. The autoantibody seen in 40% – 60% of cases of SLE is
- | | |
|---------------------------|-----------------------|
| (1) Anti histone antibody | (2) Anti centeromeric |
| (3) Anti RNP | (4) Anti ds DNA |
72. Waterhouse Friderichsen syndrome is
- (1) Pituitary necrosis secondary to DIC
 - (2) Adrenal necrosis secondary to DIC
 - (3) Thymic necrosis due to DIC
 - (4) Ovarian necrosis due to DIC
73. The precursor oval cells in the liver can give rise to
- | | |
|----------------------|-----------------------|
| (1) Hepatocytes | (2) Biliary cells |
| (3) Both (1) and (2) | (4) None of the above |

74. All of the following are present in specific granules of neutrophils EXCEPT
- (1) Lysosyme (2) Myeloperoxidase
(3) Collagenase (4) Lactoferrin
75. The only member of the class of CX3C chemokines is
- (1) IL 18 (2) Monocyte Chemoattractant Protein
(3) RANTES (4) Fractalkine
76. Glyceryltrinitrate is given by sublingual route because it has
- (1) short plasma half life
(2) slow oral absorption
(3) high hepatic first pass metabolism
(4) extensive plasma protein binding
77. Which of the following is NOT considered cardioselective?
- (1) Atenolol (2) Acebutolol
(3) Carvedilol (4) Metoprolol
78. Drug implicated in prolonging QT interval is
- (1) Metoclopramide (2) Cisapride
(3) Domperidone (4) Omeprazole
79. The inhalational bronchodilator with fastest onset and long duration of action is
- (1) Ipratropium bromide (2) Salbutamol
(3) Formeterol (4) Salmeterol
80. Urine is alkalinized for facilitation elimination of which of these drugs?
- (1) Barbiturates (2) Amphetamines
(3) Morphine (4) None of the above
81. Dryness of mouth caused by antipsychotic drugs is due to their
- (1) Antiadrenergic (2) Anticholinergic
(3) Antidopaminergic action (4) Antihistaminic action

82. Drug of choice for opioid poisoning is
- (1) Buprenorphine (2) Nalorphine
(3) Naloxone (4) Pentazocine
83. Gingival hyperplasia and facial hirsutism are possible side effects of
- (1) Carbamazepine (2) Phenytoin
(3) Phenobarbitone (4) Valporate
84. A 50 year old lady on antihypertensive drugs develops angioedema. Which of the following drugs could account for this adverse drug reaction?
- (1) Clonidine (2) Lisinopril
(3) Nifedipine (4) Atenolol
85. Which of the following local anesthetic is with the longest duration of action?
- (1) Procaine (2) Lignocaine
(3) Chlorprocaine (4) Dibucaine
86. The drug of choice for oral candidiasis is
- (1) Griseofulvin (2) Ketoconazole
(3) Terbinafine (4) Voriconazole
87. Antidote for heparin overdose is
- (1) Vitamin K (2) Disulfiram
(3) Fibrinogen (4) Protamine sulfate
88. Which of the following is the fastest acting thyroid inhibitor?
- (1) Lugol's iodine (2) Sodium thiocyanate
(3) Radioactive iodine (4) Carbimazole
89. Alendronate causes
- (1) Jachy cardia (2) Impairment of colour vision
(3) Tendinitis (4) Oesophageal irritation

90. Cilastatin is given along with
(1) Amoxicillin (2) Erythromycin
(3) Imepenem (4) Ampicillin
91. What percentage of the total cell mass is composed of phospholipids and cholesterol?
(1) 2% (2) 4%
(3) 6% (4) 8%
92. Peroxisomes differ from Lysosomes in that they
(1) Are formed from the Golgi apparatus
(2) Are formed from the smooth endoplasmic reticulum
(3) Contain hydrolases
(4) Store lipids
93. The 21-23 nucleotide single strand RNA that can regulate gene transcription and translation is
(1) Messenger RNA (2) Transfer RNA
(3) MicroRNA (4) Ribosomal RNA
94. The phenomenon of Apoptosis is initiated by
(1) Caspases (2) Oncogenes
(3) Lysozymes (4) Reverse transcriptase
95. The normal duration of spermatogenesis from spermatogonia to spermatozoa is
(1) 14 days (2) 24 days
(3) 54 days (4) 74 days
96. The amount of ingested iodides required to form normal quantities of thyroxine in a healthy adult is
(1) 1 mg/week (2) 1 mg/day
(3) 1 mg/month (4) 10 mg/year
97. The shivering centre in humans is located in
(1) Posterior hypothalamus (2) Anterior hypothalamus
(3) Pontine reticular formation (4) Primary motor cortex

98. Which of the following is not a stimulator of pancreatic secretions?
- (1) Cholecystokinin (2) Secretin
(3) Gastrin (4) Acetylcholine
99. The autonomic control of brown adipose tissue and thermogenesis is via
- (1) Alpha-2 adrenergic receptors (2) Beta-1 adrenergic receptors
(3) Beta-2 adrenergic receptors (4) Beta-3 adrenergic receptors
100. The part of the cerebral cortex controlling voluntary eye movements lies in the
- (1) Frontal cortex (2) Temporal cortex
(3) Occipital cortex (4) Parietal cortex
101. Fast pain is carried by
- (1) A-alpha fibers (2) A-beta fibers
(3) A-delta fibers (4) C fibers
102. The energy cost of quiet breathing in a healthy adult as a percentage of total energy expenditure of the body is
- (1) 1-2% (2) 3-5%
(3) 6-8% (4) 10-12%
103. Platelets in the blood are replaced once every how many days?
- (1) 2 (2) 4
(3) 6 (4) 10
104. The Glomerular Filtration rate as a fraction of the renal plasma flow, in a healthy individual, is
- (1) 10% (2) 20%
(3) 30% (4) 40%
105. Which of the following substances can be used to measure plasma volume?
- (1) Antipyrine (2) Inulin
(3) ^{125}I -albumin (4) $^3\text{H}_2\text{O}$

- 106.** The best measure of the strength of the association between risk factor and outcome is
- (1) Odds ratio
 - (2) Relative risk
 - (3) Risk difference
 - (4) Attributable risk
- 107.** The definition of epidemiology most commonly used in literature was given by
- (1) Paul J R
 - (2) Clark E G
 - (3) John M Last
 - (4) Lowe and Kostrzewski
- 108.** The most reliable and contemporary method for fluoride analysis in food is
- (1) calorimetric technique
 - (2) microdiffusion technique
 - (3) perchloric acid diffusion technique
 - (4) silanol extraction after ashing in a closed oxygen bomb technique
- 109.** The process involves mixing waste with cement and other substances before disposal in order to minimize the risk of toxic substances from migrating to ground water
- (1) Encapsulation
 - (2) Inertization
 - (3) Incineration
 - (4) Filtration
- 110.** Range of score for community fluorosis index falls between 1.0–2.0, public health significance is
- (1) negative
 - (2) border line
 - (3) slight
 - (4) medium
- 111.** Bias is any systematic error in the determination of association between
- (1) Relative risk and Attributable risk
 - (2) Incidence and prevalence
 - (3) Exposure and disease
 - (4) Disease and environment
- 112.** Primordial prevention, a new concept receiving special attention in the prevention of
- (1) Acute disease
 - (2) Chronic disease
 - (3) Epidemics
 - (4) Pandemics

113. The age of the child used in the determination of child mortality rate is
- | | |
|---------------|---------------|
| (1) 0 – 5 yrs | (2) 1 – 4 yrs |
| (3) 5 – 8 yrs | (4) 0 – 1 yr |
114. 'Potable water' is one which
- (1) Is safe for drinking
 - (2) Can be carried from one place to another
 - (3) Found within 5 meters within surface of earth
 - (4) None of the above
115. Colombo plan is a plan of
- | | |
|----------------------------|--------------------------|
| (1) UNO | (2) World Bank |
| (3) Commonwealth Countries | (4) Government of Ceylon |
116. When a disease spreads rapidly from one person to another it is known as
- | | |
|--------------|--------------|
| (1) Pandemic | (2) Endemic |
| (3) Epidemic | (4) Sporadic |
117. Caries risk can be illustrated by
- | | |
|---------------|-----------------|
| (1) histogram | (2) cariography |
| (3) scalogram | (4) cartogram |
118. Intra and inter examiner reproducibility can be checked by
- | | |
|---------------------|--------------------|
| (1) Kappa statistic | (2) Test statistic |
| (3) Likert scale | (4) Guttman scale |
119. Dental licentiate is a
- | | |
|----------------------|-------------------------------|
| (1) Dental hygienist | (2) Dental mechanic |
| (3) Dental aide | (4) Semi-independent operator |
120. The first community water fluoridation in a clinical trial was carried in
- | | |
|--------------------|------------------------|
| (1) 1945, Colarado | (2) 1945, Grand Rapids |
| (3) 1945, Oak Park | (4) 1945, Evanston |

121. The most common benign tumor occurring in the oral cavity is the
- (1) Papilloma (2) Adenoma
(3) Fibroma (4) Hemangioma
122. The most common malignancy found in the oral cavity is
- (1) Basal cell carcinoma (2) Transitional cell carcinoma
(3) Squamous cell carcinoma (4) Adenocarcinoma
123. Failure of the tuberculum impar to retract prior to fusion of the lateral halves of the tongue results in
- (1) Median rhomboid glossitis (2) Cleft (bifid) tongue
(3) Geographic tongue (4) Scrotal tongue
124. Papillary cystadenoma lymphomatosum, which occurs almost exclusive in the parotid gland, is commonly called
- (1) Cylindroma (2) Warthin's tumor
(3) Mikulicz's disease (4) Jaffy's syndrome
125. 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
- (1) Cretinism (2) Pituitary dwarfism
(3) Acromegaly (4) Achondroplasia
126. Osteosarcoma characteristically may develop in cases of
- (1) Osteopetrosis (2) Osteogenesis imperfecta
(3) Acromegaly (4) All of the above
127. The blood of a patient with an acute infectious process would be expected to demonstrate
- (1) Lymphocytosis (2) Leukocytosis
(3) Monocytosis (4) Leukopenia

- 128.** Multiple skeletal radiolucencies reversed A/G ratio, Bence Jones protein in the urine, and solid plasma cell infiltrate in the biopsy in a 50-year old man indicate a diagnosis of
- (1) Metastatic prostatic carcinoma (2) Multiple myeloma
 (3) Hyperparathyroidism (4) Miliary Tuberculosis
- 129.** Histiocytosis X, sometimes referred to as non-lipid reticuloendotheliosis, includes
- (1) Letterer-Siwe disease (2) Hand-Schuler-Christian disease
 (3) Eosinophilic Granuloma (4) All of the above
- 130.** The classic triad of Hand-Schuler-Christian disease includes lesions of bone, exophthalmos and
- (1) Diabetes insipidus (2) Hepatosplenomegaly
 (3) Diabetes mellitus (4) Hypothyroidism
- 131.** Features of multiple bone radiolucencies, hypercalcemia hypophosphatemia and loss of lamina dura are indicative of
- (1) Acromegaly (2) Hyperparathyroidism
 (3) Hypothyroidism (4) Multiple myeloma
- 132.** Oral cytological smears are of no value in the diagnosis of
- (1) Oral cancer (2) Primary intraoral herpes simplex
 (3) Herpes zoster (4) Lipoma
- 133.** Koplik's spots are an early intraoral manifestation of
- (1) Varicella (2) Variola
 (3) Rubella (4) Mumps
- 134.** A patient with oral moniliasis that does not respond to nystatin therapy should be evaluated for the following EXCEPT
- (1) Diabetes insipidus (2) Diabetes mellitus
 (3) Hyperparathyroidism (4) Malignant lymphoma

135. The Melkersson-Rosenthal syndrome is characterized by facial paralysis, cheilitis granulomatosa, and
- (1) Black Hairy tongue (2) Scrotal tongue
(3) Geographic tongue (4) Bifid tongue
136. D.N.A. is duplicated in the cell cycle during the
- (1) G2 phase (2) M phase
(3) G1 phase (4) S phase
137. The ligament which is a remnant of Meckel's cartilage is
- (1) Stylomandibular ligament (2) Temperomandibular ligament
(3) Sphenomandibular ligament (4) All of the above
138. A typical and smallest molar is
- (1) Mandibular deciduous first molar
(2) Maxillary deciduous first molar
(3) Maxillary permanent second molar
(4) Mandibular deciduous second molar
139. Treacher Collin Syndrome is due to
- (1) Interference in folding of embryo
(2) Interference in embryonic trilaminar disc formation
(3) Interference in migration of ectodermal cells
(4) Interference in migration of neural crest cells
140. Gusten is a protein present in saliva is related with
- (1) Digestion of food (2) Enamel maturation and repair
(3) Taste bud growth and maturation (4) Pellicle formation
141. An elevation on some portion of the crown produced by an extra formation of enamel is
- (1) Cusp (2) Tubercle
(3) Cingulum (4) Ridge
142. What induces neural plate formation within the overlying ectoderm?
- (1) Ectomesoderm (2) Chordamesoderm
(3) Perimesoderm (4) None of the above

143. Enamel knot is a transitory structure
- (1) Signalling centre during tooth development
 - (2) Formed from dental papilla
 - (3) Helps in the formation of crown pattern
 - (4) Persists till crown formation
144. The major protein in developing enamel is
- (1) Enamelin
 - (2) Tuftelin
 - (3) Amelogenins
 - (4) Glycine
145. Hyaline layer seen at Cemento Dentin junction is produced from
- (1) Cementoblasts
 - (2) Ectomesenchymal cells of dental papilla
 - (3) Ectomesenchymal cells of Dental sac
 - (4) Epithelial root sheath cells
146. Cytokeratin responsible for terminal differentiation and keratinization
- (1) CK-4 & 13
 - (2) CK-6 & 19
 - (3) CK-7,8 & 18
 - (4) CK 1 & 10
147. The only ectodermal derivative of the tooth is
- (1) Enamel
 - (2) Dentin
 - (3) Cementum
 - (4) Pulp
148. The rate of turnover of periodontal ligament is highest at
- (1) Coronal portion of root
 - (2) Middle portion of root
 - (3) Root apex
 - (4) In between coronal and middle portion of root
149. The cells in the centre of the enamel organ are densely packed and form the
- (1) Enamel septum
 - (2) Enamel navel
 - (3) Enamel cord
 - (4) Enamel knot
150. Non keratinocytes which possess keratin tonofilaments are
- (1) Langerhans cells
 - (2) Merkel cells
 - (3) Macrophages
 - (4) Inflammatory cells

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