

BDS-103**BDS –I Year**

Examination, Jan.-2022

Dental Anatomy, Embryology & Oral Histology*Time: Three Hours***Marks: 35****SECTION-A****Notes:-**

- (i) Answer should be in serial order.
- (ii) Draw diagram wherever necessary.

Q.1 Long answer type question 2 x 5 = 10

- (i) Describe stages of Tooth Development. Give a brief description of formation of two rooted tooth.
- (ii) Describe in detail chronology, dimensions, functions and all aspects of permanent maxillary first molar.

Q.2 Write short note on 5 x 3 = 15

- (i) Tooth Numbering Systems
- (ii) Hypocalcified structures of Enamel
- (iii) Histology of Maxillary sinus
- (iv) Functions of pulp
- (v) Masticatory mucosa.

Q.3 Multiple choice questions: 1 x 10 = 10

- (i) Accumulation of zymogen granules in the apical cytoplasm is the prominent feature of
 - (a) Serous cells
 - (b) Mucous cells
 - (c) Seromucous cells
 - (d) None of the above
- (ii) Principle fibre continue as sharpey's fibre into:-
 - (a) Alveolar bone proper
 - (b) Lamellated bone
 - (c) Bundle bone
 - (d) Supporting alveolar bone
- (iii) Perikymata are transverse, wave-like grooves, believed to be the external manifestation of the:-
 - (a) Striae of Retzius
 - (b) Gnarled Enamel
 - (c) Hunter-Schreger Bands
 - (d) All of the Above
- (iv) Osteoclast are rich in:-
 - (a) Alkaline phosphatase
 - (b) Acid phosphatase
 - (c) Hyaluronidase
 - (d) None
- (v) Cells responsible for the removal of dental hard tissue during shedding are:-
 - (a) Odontoclasts
 - (b) Osteoclasts
 - (c) Fibroblasts
 - (d) Osteoblasts
- (vi) The successor of deciduous teeth develops from:-
 - (a) Lingual extension of dental lamina
 - (b) Labial extension of dental lamina
 - (c) Buccal extension of dental lamina
 - (d) Occlusal extension of dental lamina
- (vii) Countour lines of Owen are:-
 - (a) Hypocalcified band
 - (b) Hypercalcified bands
 - (c) Non-mineralized bands
 - (d) None of the above
- (viii) Which of the following is the ligament of Temporomandibular Joint:-
 - (a) Sphenomandibular ligament
 - (b) Stylomandibular ligament
 - (c) Anterior ligament
 - (d) Lateral ligament
- (ix) In FDI notation 43 is designated for
 - (a) Maxillary right Canine
 - (b) Maxillary left Canine
 - (c) Mandibular right Canine
 - (d) Mandibular left Canine
- (x) The vermilion border, is also known as:-
 - (a) White zone
 - (b) Red zone
 - (c) Reducing zone
 - (d) Violet zone

SECTION – B

(35 marks)

Notes:-

- (i) Answer should be in serial order.
- (ii) Draw diagram wherever necessary.

Q.1 Long answer type question

2 x 5 = 10

- (i) Define periodontium & describe in detail cells and fibers of the periodontal ligament.
- (ii) Define and classify Oral Mucosa Membrane. Describe in detail development and histology of tongue.

Q.2 Write short note on

5 x 3 = 15

- (i) Amelogenesis
- (ii) Cemento-enamel junction
- (iii) Theories of dentin sensitivity
- (iv) Histology of salivary glands
- (v) Well labelled diagram of all aspects of Maxillary First Premolar

Q.3 Multiple choice questions:

1 x 10 = 10

- (i) Remnants of HERS are known as
 - (a) Cell rests of Serres
 - (b) Cell rests of Malassez
 - (c) Epithelial pearls
 - (d) None of the above
- (ii) Which of these is related to Temporomandibular Joint :-
 - (a) Ginglymoarthroidal joint
 - (b) Hinge joint
 - (c) Synovial joint
 - (d) All of the above
- (iii) Cusp of Carabelli is seen in:-
 - (a) Maxillary I molar
 - (b) Mandibular I molar
 - (c) Mandibular II premolar
 - (d) Maxillary second premolar
- (iv) Majority of the taste buds are found in:-
 - (a) Filiform papillae
 - (b) Fungiform papillae
 - (c) Circumvallate papillae
 - (d) All of the above
- (v) Formaldehyde as a fixative is generally used as a:-
 - (a) 10%
 - (b) 20%
 - (c) 30%
 - (d) 40%
- (vi) Which of the following is vascularized:-
 - (a) Cementum
 - (b) Bone
 - (c) Enamel
 - (d) Dentine
- (vii) The mandibular molars have 2 roots. They are:-
 - (a) Mesial and distal
 - (b) Buccal and lingual
 - (c) Buccal and palatal
 - (d) None of the above
- (viii) Keratohyaline granules are found in:-
 - (a) Stratum granulosum
 - (b) Stratum spinosum
 - (c) Stratum basale
 - (d) Prickle cell layer
- (ix) 'Plexus of Rashkow' is present in which of the following zone:-
 - (a) Cell free zone
 - (b) Cell rich zone
 - (c) Odontoblastic zone
 - (d) Pulp core
- (x) The mesio-lingual developmental groove is present in:-
 - (a) Maxillary 1st premolar
 - (b) Maxillary 2nd premolar
 - (c) Mandibular 2nd premolar
 - (d) Mandibular 1st premolar