



**PAC-21260**

Seat No. \_\_\_\_\_

**First Year B. D. S. Examination**

**July - 2020**

**Dental Anatomy, Embryology & Oral Histology**

Time : 3 Hours]

[Total Marks : 70

- Instructions :** (1) Write each section in separate answer book.  
(2) Draw figure wherever necessary.  
(3) Figures on right indicate marks.  
(4) Attend all the questions.

**SECTION - I**

- 1 Define eruption of tooth. Discuss mechanism of tooth eruption. **10**

**OR**

- 1 Describe structure of enamel in detail. **10**

- 2 Write short notes : (any two) **10**

- (a) Bell stage of tooth development  
(b) Fibers of periodontal ligament  
(c) Specialized mucosa.

- 3 (a) Write short notes : (any two) **10**

- (1) Histology of salivary glands  
(2) Innervation of dentin and its clinical importance  
(3) Incremental lines of dental tissues.

- (b) Answer in one sentence : (any five) **5**

- (a) Pulp horns  
(b) Cementicles  
(c) Bundle bone  
(d) Hertwig's epithelial root sheath  
(e) Odontoclasts  
(f) Name three special stains.

## SECTION - II

- 4 Describe briefly : (any **two**) **10**
- (a) Structure and histology of maxillary sinus
  - (b) Gingiva
  - (c) Pulp
- 5 Write short notes : (any **two**) **10**
- (a) Morphology of permanent maxillary first molar
  - (b) Tabulate morphologic differences in permanent mandibular molars.
  - (c) Elevations and depressions on tooth surface.
- 6 (a) Write short notes : (any **two**) **10**
- (1) Permanent maxillary canine
  - (2) Differences in deciduous and permanent teeth
  - (3) Histology of temporomandibular joint
- (b) Answer the following : (any **five**) **5**
- (a) Mamelons
  - (b) Overjet and overbite
  - (c) Dental formula
  - (d) Contact areas
  - (e) Nerve supply of mandibular teeth
  - (f) Ground section of tooth.
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