

3. (a) Discuss physical properties of enamel. 5
 (b) Discuss reciprocal induction. 5
4. (a) Myoepithelial cells 5
 (b) Demilunes 5
5. (a) Hydrodynamic theory 5
 (b) Smooth ended ameloblasts 5
6. (a) Discuss in detail morphology of permanent mandibular left first molar. 5
 (b) Detailed histological aspect of oral mucous membrane with diagram. 5

No. of Printed Pages : 06

Following Paper ID and Roll No. to be filled in your Answer Book.

PAPER ID : 2103

Roll
No.

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BDS Examination August, 2017

(First Professional)

**DENTAL ANATOMY, EMBRYOLOGY AND
ORAL HISTOLOGY**

Time : 3 Hours]

[Maximum Marks : 70

Note :- All questions are compulsory. Attempt questions in sequence of question paper.

1. (I) Select the most appropriate answer : 5
- (a) Which of the following tissue is avascular :
- (i) Cementum
- (ii) Dentin
- (iii) Pulp
- (iv) Enamel

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- (b) Enamel tufts arise at :
- (i) DEJ
 - (ii) CEJ
 - (iii) Pulp
 - (iv) Dentin
- (c) Korff's fibers are present in :
- (i) Pulp
 - (ii) Dentin
 - (iii) Enamel
 - (iv) Cementum
- (d) Scalloping is found in :
- (i) DEJ
 - (ii) CEJ
 - (iii) Dentin
 - (iv) Pulp

- (e) Odontoblastic processes form :
- (i) Enamel tufts
 - (ii) Enamel rods
 - (iii) Enamel spindles
 - (iv) Neonatal lines
- (f) Enamel organ contains :
- (i) One layer
 - (ii) Two layers
 - (iii) Three layers
 - (iv) Four layers
- (g) Shock absorber layer is :
- (i) Stellate reticulum
 - (ii) Stellate intermedium
 - (iii) All of the above
 - (iv) None of the above

- (h) Surface structures of enamel are :
- (i) 70 μm thick
 - (ii) 40 μm thick
 - (iii) 30 μm thick
 - (iv) None
- (i) Perikymata are :
- (i) Part of enamel tufts
 - (ii) External manifestations of Striae of Retzius
 - (iii) All of the above
 - (iv) None of these
- (j) Newly erupted tooth is covered by :
- (i) Nasmyth's membrane
 - (ii) Enamel Cuticle
 - (iii) Both (i) and (ii)
 - (iv) None of these

- (II) Answer if the statement is true or false :
- (a) Cell free bone is absent in pulp.
 - (b) A cellular cementum is found in apical portion.
 - (c) Submandibular gland is purely serous.
 - (d) Stensen's duct belongs to parotid gland.
 - (e) Osteoclasts are bone forming cells.
- (III) Fill up the blanks with correct answer :
- (a) Oral mucosa has type of epithelium.
 - (b) Hardest tissue in oral cavity is
 - (c) COL is a part of
 - (d) Filaggrin is a
 - (e) Tight junctions are a part of

2. Write notes on :

- (a) Development of tooth germ. 5
- (b) Ectomesenchyme 5

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