

Question Paper

Exam Date & Time: 27-Oct-2023 (02:15 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST BDS DEGREE EXAMINATION - OCTOBER 2023
SUBJECT: DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

Marks: 60

Duration: 165 mins.

Answer all the questions.

- 1A) Describe in detail the morphology of permanent maxillary first premolar. (8)
- 1B) Write the key morphological differences between the permanent maxillary first and second premolar from the mesial aspect. (2)
- 2A) Classify oral mucosa. (2)
- 2B) Write in detail the light microscopic and ultrastructural features of hard palate. (6)
- 2C) Injection of local anesthetic in the region of hard palate is painful. Describe the normal histologic feature that could be the cause for this. (2)
- 3) **Write short notes on:**
- 3A) Hypocalcified structures of enamel (4)
- 3B) A 23-year-old boy was having an ice-cream candy. Suddenly he experienced a sharp pain sensation in his tooth. Explain the theories causing this phenomenon. (4)
- 3C) Principal fibres of periodontal ligament (4)
- 3D) Bell stage of tooth development (4)
- 3E) Myoepithelial cells (4)
- 3F) Decalcification (4)
- 3G) Tooth numbering systems (4)
- 3H) Buccal aspect of permanent maxillary canine (4)
- 3I) Matrix vesicle theory of mineralization (4)
- 3J) Compensatory curves in occlusion (4)

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