

# Question Paper

Exam Date & Time: 16-Jun-2023 (02:15 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST BDS DEGREE EXAMINATION - JUNE 2023

SUBJECT: DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY  
(REGULAR BATCH)

Marks: 60

Duration: 165 mins.

**Answer all the questions.**

- 1A) Enumerate the hypocalcified structures of enamel (2)
- 1B) Describe in detail the life cycle of an Ameloblast. (6)
- 1C) A 4 year old child had a fall and his deciduous maxillary central incisor intruded into the socket. At 6½ years his permanent central incisor erupted and was seen to be hypoplastic. Give reasons for the hypoplasia. (2)
- 2A) Describe in detail the morphology of permanent maxillary canine. (8)
- 2B) Enumerate the significant differences between permanent maxillary and mandibular canines (2)
- 3) **Write short notes on:**
- 3A) Cap Stage of tooth development (4)
- 3B) Circumvallate Papillae (4)
- 3C) Odontoclast (4)
- 3D) Describe the histological differences between serous and mucous acini (4)
- 3E) Occlusal aspect of permanent mandibular first molar (4)
- 3F) A 12 year old boy visited the dentist with a black carious spot on the mandibular first permanent molar which was not treated. Eight months later he reported with severe pain and, the carious lesion appeared to have greatly enlarged. Explain the histological features of dentin which enabled this rapid progression. (4)
- 3G) Muscles of mastication (4)
- 3H) Labial aspect of permanent maxillary central incisor (4)
- 3I) Describe the differences from the occlusal aspect of the two morphological types of mandibular second premolar. (4)
- 3J) Differences between cellular and acellular cementum (4)

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