

# Question Paper

Exam Date & Time: 02-01-2023 (02:15 PM - 05:00 PM)



## MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST BDS DEGREE EXAMINATION - JANUARY 2023  
SUBJECT: DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY  
(REGULAR BATCH)

Marks: 60

Duration: 165 mins.

**Answer all the questions.**

### Essay questions.

- 1A) Enumerate the morphological stages in tooth development. (2)
- 1B) Describe in detail the bell stage of tooth development. (6)
- 1C) What fault in the physiologic process of odontogenesis results in a mis-shapen tooth crown? (2)
- 2A) Describe in detail the morphology of the permanent maxillary canine. (8)
- 2B) Add a note on the features of the canine that makes it the most stable tooth in the mouth. (2)

### 3. Write short notes on:

- 3A. A 7 year old boy was brought to the dental clinics with a complaint of brownish-coloured incisors with a very irregular surface. The mother revealed that when she was pregnant with this child, she had episodes of fever and was treated with tetracycline antibiotic. Correlate the appearance of the crown with the defective stage of enamel formation. (4)
- 3B) Differences between deciduous and permanent molars. (4)
- 3C) Functions of Calcium. (4)
- 3D) Histology of attached gingiva. (4)
- 3E) Myoepithelial cells. (4)
- 3F) Occlusal surface of permanent mandibular first molar. (4)
- 3G) Osteoclasts. (4)
- 3H) Primary dentin. (4)
- 3I) Theories of tooth eruption. (4)
- 3J) Tooth numbering systems. (4)

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