

Question Paper

Exam Date & Time: 11-02-2022 (02:15 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST BDS DEGREE EXAMINATION - FEBRUARY 2022
SUBJECT: DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY
(CASUALS - 2021)

Marks: 60

Duration: 165 mins.

Essay Question:

- 1A) Enumerate the physiological stages of tooth development. (2)
- 1B) Describe in detail the process of root formation. (6)
- 1C) A 9 year old girl reported with an abnormally shaped crown of the maxillary central incisor. Name the morphological and physiological developmental stage of tooth formation affected and justify. (2)
- 2A) Describe in detail the morphology of Permanent Maxillary Central Incisor. (8)
- 2B) Enumerate the differences between Permanent Maxillary Central and Permanent Maxillary Lateral incisor from labial and lingual aspects.(2)
3. **Write short notes on:**
- 3A) Define Cusp and Fossa with appropriate examples. (4)
- 3B) Describe the theories of tooth eruption. (4)
- 3C) A 12 year old girl reported with a carious lesion seen as a thin brownish black line along the central groove of the permanent mandibular left first molar (36). The dentist prepared the cavity much wider than width of the visible carious lesion. Explain the structure of enamel which leads to the divergent spread of the caries. (4)
- 3D) Ductal modification of saliva. (4)
- 3E) Occlusal aspect of permanent Maxillary first molar. (4)
- 3F) Zones of pulp. (4)
- 3G) Microscopic features of buccal mucosa. (4)
- 3H) Describe the role of vitamin D in calcium homeostasis. (4)
- 3I) Mesial aspect of mandibular first premolar. (4)
- 3J) Describe the principal fibers of periodontal ligament. (4)

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