

Question Paper

Exam Date & Time: 24-Feb-2021 (02:15 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

Marks: 60

Duration: 165 mins.

Answer all the questions.

- 1) Enumerate the hypocalcified structures of enamel. Describe in detail light microscopic features of life cycle of an Ameloblast. A 4 year old child had a fall and traumatized his deciduous maxillary central incisor which intruded into the socket. At 6½ years his permanent central incisor which emerged was hypoplastic. Describe the reason for the same. (2+6+2 = 10 marks)
- 2) Describe in detail the morphology of Permanent Maxillary canine. Enumerate the differences between Permanent Maxillary and mandibular canine. (8+2 = 10 marks)
3. Write short notes on:
 - 3A) Cap Stage of tooth development (4)
 - 3B) Circumvallate Papillae (4)
 - 3C) 12 year-old boy showed eruption of mandibular second premolar, with evidence of hard structures at the interdental spaces. On radiographic evaluation, calcified structures resembling roots of the deciduous teeth were seen in the interdental spaces. Describe this clinical phenomenon. (4)
 - 3D) Describe the histological differences between serous and mucous salivary glands (4)
 - 3E) Occlusal aspect of Permanent Mandibular First Molar (4)
 - 3F) Dentinal tubules (4)
 - 3G) Muscles of mastication. (4)
 - 3H) Labial aspect of permanent maxillary central incisor. (4)
 - 3I) Describe the differences between the two morphological types of mandibular second premolar (4)
 - 3J) Differences between cellular and acellular cementum (4)

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