Question Paper

Marks: 60

Exam Date & Time: 02-Jan-2021 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

FIRST BDS DEGREE EXAMINATION - DECEMBER 2020/JANUARY 2021 SUBJECT: DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY

Answer all the questions. Draw diagrams wherever necessary 1. Enumerate the stages in the lifecycle of an ameloblast. Describe in detail three hypocalcified structures seen in enamel. Describe the alteration seen in enamel due to excess fluoride intake. (2+6+2 = 10 marks)2. Write in detail the buccal, lingual, mesial, distal and occlusal morphology of mandibular first premolar. Mention the features that differentiate it from mandibular second premolar. (2+1+2+1+2+2 = 10 marks)3. **Short notes** Describe the contents of the dentinal tubule 3A) 3B) Enumerate the principal fibers of the periodontal ligament. Enumerate the resorptive cells seen within the periodontal ligament 3C) Define - Cusp, Cingulum, Tubercle and Mamelon 3D) Differences between maxillary and mandibular canine 3E) Differences between woven bone and lamellar bone 3F) Describe the structure and function of striated duct (10) 3G) Enumerate the functions of Maxillary sinus. Name the type of epithelium that lines the maxillary sinus. Describe the occlusal aspect of Deciduous Maxillary first molar 3H) 31) Discuss the hormones and their actions that increase the serum calcium level 3J) A child presents to the clinic with peg shaped lateral incisor. Discuss the physiologic stage in the development of tooth that has resulted in the alteration. $(4 \text{ marks} \times 10 = 40 \text{ marks})$

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Duration: 165 mins.