

MANIPAL UNIVERSITY**FIRST BDS DEGREE EXAMINATION – JULY 2016****SUBJECT: DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY (ESSAY)**

Friday, July 22, 2016

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

✍ **Answer ALL the questions.**

✍ **Draw diagrams wherever necessary.**

✍ **Essay questions:**

1. Classify salivary glands. Write in detail the light and electron microscopic features of serous acini. Add a note on the modification of salivary protein before exocytosis.

(2+2+4+2 = 10 marks)

2. Write in detail the buccal, lingual, mesial, distal and occlusal morphology of mandibular first premolar. Give an account on its chronology.

(2+2+2+2+2 = 10 marks)

3. **Short notes:**

3A. Early bell stage of tooth development

3B. Junctional epithelium

3C. Dead tracts and sclerotic dentin

3D. Differences between cellular and acellular cementum

3E. Occlusal aspect of permanent mandibular first molar

3F. Principal group of fibers in periodontal ligament

3G. Oral phase of deglutition

3H. Articular disk

3I. Histology of maxillary sinus

3J. Ridges on a tooth

(4 marks × 10 = 40 marks)

