

**MANIPAL UNIVERSITY****FIRST BDS DEGREE EXAMINATION – NOVEMBER 2012****SUBJECT: DENTAL ANATOMY, EMBRYOLOGY AND ORAL HISTOLOGY (ESSAY)  
(NEW REGULATION)**

Monday, November 26, 2012

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

✍ **Answer ALL the questions.**

✍ **Draw diagrams wherever necessary.**

1. Discuss the morphology of permanent maxillary canine. Add a note on its chronology.  
(8+2 = 10 marks)
2. Discuss the histology of submandibular gland. Add a note on its development.  
(8+2 = 10 marks)

**3. Short notes:**

- 3A. Non keratinocytes.
- 3B. Light microscopy of Amelogenesis.
- 3C. Sclerotic dentin.
- 3D. Pulp stones.
- 3E. Cementoenamel junction.
- 3F. Synthetic cells of periodontal ligament.
- 3G. Curve of Wilson.
- 3H. Occlusal aspect of permanent maxillary first molar.
- 3I. Differences between permanent and deciduous canine.
- 3J. Matrix vesicle theory of mineralization.

(4×10 = 40 marks)

