

**MANIPAL UNIVERSITY****FINAL BDS PART – I DEGREE EXAMINATION – JANUARY 2014****SUBJECT: ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS (ESSAY)  
(NEW REGULATION)**

Monday, January 13, 2014

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

**✍ Answer ALL questions****✍ Long Questions:**

1. Describe in detail the features and treatment of class II division 1 malocclusion.  
(4+6 = 10 marks)
2. Mention the mechanisms involved in the growth of mandible. Describe in brief the postnatal growth of mandible.  
(2+8 = 10 marks)
3. **Write short notes on:**
  - 3A. Treatment of anterior crossbite
  - 3B. Intraoral sources of anchorage
  - 3C. Piezoelectricity
  - 3D. Rationale and disadvantages of serial extraction
  - 3E. Differentiate between metallic and ceramic brackets
  - 3F. Skeletal and dental effects of RME
  - 3G. Ideal requirements of orthodontic archwire
  - 3H. Treatment principles of biteplane
  - 3I. Raleigh William's keys to retention
  - 3J. Trimming of an activator for vertical control with diagrams  
(4×10 = 40 marks)

