

**MANIPAL UNIVERSITY****FINAL BDS PART – I DEGREE EXAMINATION – JUNE/JULY 2015****SUBJECT: ORTHODONTICS (ESSAY)  
(OLD REGULATION)**

Wednesday, July 01, 2015

Time: 14:30 – 17:00 Hrs.

Maximum Marks: 80

**✍ Answer ALL the question.**

1. Write in detail about rapid maxillary expansion.

(10 marks)

2. **Write short notes on:**

2A. Methods of studying growth

2B. Types of forces

2C. Brackets

2D. Orthodontic management of cleft lip and palate

2E. Clinical features and management of digit sucking habit

2F. Ackerman-proffit classification

2G. Management of class III malocclusion

2H. Catlan's appliance

2I. Theories of tooth movement

2J. Cervical vertebrae maturation index

(5 marks × 10 = 50 marks)

3. **Write short answers on:**

3A. Wolf's law of Transformation of bone

3B. Flush terminal plane

3C. Profile assessment

3D. Nance palatal arch

3E. Spring aligner

3F. Dental solder

3G. Optimum orthodontic force

3H. Types of headgears

3I. Gonion and Gnathion

3J. Therapeutic extraction

(2 marks × 10 = 20 marks)



## MANIPAL UNIVERSITY

FINAL BDS PART – I DEGREE EXAMINATION – JUNE/JULY 2015

SUBJECT: ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS (ESSAY)  
(NEW REGULATION)

Wednesday, July 01, 2015

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

**✍ Essay questions:**

1. Enumerate the different types of Functional regulator, Mode of action of functional regulator, construction and components of FR2.

(2+4+4 = 10 marks)

2. Write on the Etiology and pathophysiology of CLP, Veau's classification of CLP, Management of CLP.

(3+1+6 = 10 marks)

**3. Short notes:**

- 3A. Functional matrix theory  
3B. Flush terminal plane  
3C. Simon's classification  
3D. WITS appraisal  
3E. Pressure tension theory of tooth movement  
3F. Classify anchorage and add a note on reciprocal anchorage  
3G. Slenderisation  
3H. Enumerate the components of fixed orthodontic appliance and add a note on elastics  
3I. Clinical features and management of mouth breathing habit  
3J. Frenectomy

(4 marks × 10 = 40 marks)

