

## MANIPAL UNIVERSITY

## FINAL BDS PART – I DEGREE EXAMINATION – JANUARY 2016

SUBJECT: ORTHODONTICS (ESSAY)  
(OLD REGULATION)

Wednesday, January 13, 2016

Time: 14:30 – 17:00 Hrs.

Maximum Marks: 80

1. Define and classify anchorage. Discuss in detail about the types of anchorage and planning anchorage.

(10 marks)

2. **Short notes on:**

- 2A. Trajectories of force  
2B. Explain materials used in soldering procedure and mention briefly the types of soldering  
2C. Effects of RME  
2D. Rotations  
2E. Local factors in etiology of malocclusion  
2F. Digit sucking habit  
2G. Twin block appliance  
2H. Etiology and management of openbite  
2I. Adams clasp  
2J. Serial extraction

(5 marks × 10 = 50 marks)

3. **Write short answers on:**

- 3A. Jacksons triad  
3B. Flush terminal plane  
3C. Vertical facial proportion  
3D. Distal shoe space maintainers  
3E. Keslings tooth positioner  
3F. Dental solder  
3G. Optimum orthodontic force  
3H. Therapeutic extraction  
3I. Angle of convexity  
3J. Types of headgears

(2 marks × 10 = 20 marks)



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## MANIPAL UNIVERSITY

### FINAL BDS PART – I DEGREE EXAMINATION – JANUARY 2016 SUBJECT: ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS (ESSAY) (NEW REGULATION)

Wednesday, January 13, 2016

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

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**✍ Essay questions:**

1. List the various diagnostic aids used in Orthodontics. Write in detail about the clinical features and management of tongue thrusting habit.

(3+7 = 10 marks)

2. What are the indications of arch expansion? List the appliances used for the same. Add a note on its effects on the various craniofacial structures.

(2+2+6 = 10 marks)

3. **Short notes:**

- 3A. Meckel's cartilage
- 3B. Soldering
- 3C. Etiology, Features and diagnosis of anterior open bite
- 3D. Piezoelectric theory
- 3E. Enumerate different interceptive procedures and write on Dewels method of serial extraction
- 3F. Classify springs used in removable appliance and add a note on single cantilever spring
- 3G. Indications and mechanism of action of activator
- 3H. Skeletal class III Vs pseudo class III
- 3I. Camouflage in orthodontics
- 3J. Theories of retention

(4 marks × 10 = 40 marks)

