

MANIPAL UNIVERSITY**FINAL BDS PART – I DEGREE EXAMINATION – JUNE/JULY 2017****SUBJECT: ORTHODONTICS (ESSAY)
(OLD REGULATION)**

Thursday, June 29, 2017

Time: 14:30 – 17:00 Hrs.

Maximum Marks: 80

1. Write in detail about cleft lip and palate and its management.

(10 marks)

2. Write short notes on:

- 2A. Enlow's 'V' principle and Enlow's counterpart principle
- 2B. Postnatal growth of the mandible
- 2C. Infantile swallow and mature swallow
- 2D. Inter-arch malocclusions
- 2E. Prolonged retention and early loss of deciduous teeth
- 2F. Mixed dentition model analysis
- 2G. Histological changes following the application of heavy forces to teeth
- 2H. Continuous, intermittent and interrupted forces
- 2I. Space regaining
- 2J. Effects of RME

(5 marks × 10 = 50 marks)

3. Write short answers on:

- 3A. Cortical drift
- 3B. Primate spaces
- 3C. Angles Class II and Class III molar relations
- 3D. Trident of factors in thumb sucking
- 3E. Define facial profile and facial divergence
- 3F. Angle ANB
- 3G. Definitions and magnitude of optimal orthodontic force
- 3H. Definition of serial extraction and Jewell's sequence of extraction
- 3I. Formula to calculate the relationship between the wire dimensions and force generated by a spring
- 3J. Enumerate the etiological factors for midline diastema

(2 marks × 10 = 20 marks)



MANIPAL UNIVERSITY**FINAL BDS PART – I DEGREE EXAMINATION – JUNE/JULY 2017****SUBJECT: ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS (ESSAY)
(NEW REGULATION)**

Thursday, June 29, 2017

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

✍ Answer ALL questions.**✍ Draw diagrams where necessary.****✍ Long questions:**

1. List the various theories of growth and write in detail about the functional matrix hypothesis.
(3+7 = 10 marks)
2. Classify functional appliances and write in detail about the functional regulator.
(3+7 = 10 marks)
3. **Write short notes on:**
 - 3A. Write Wolfe's law and briefly explain its significance.
 - 3B. Write on the methodology of Moyer's mixed dentition analysis and its clinical application.
 - 3C. Define moment of force and couple. Add a note on center of rotation.
 - 3D. Write on the etiology and clinical features of mouth breathing habit.
 - 3E. Write briefly on angle SNA, SNB and ANB of Steiner's cephalometric analysis
 - 3F. Write on the phases of orthodontic tooth movement.
 - 3G. Appliance design and indications of Vestibular screen.
 - 3H. Write on the Dewel's and modified Dewel's method of serial extraction.
 - 3I. Explain Pericision and its application in orthodontics.
 - 3J. Write on the composition and uses of Flux in orthodontic soldering.
(4 marks × 10 = 40 Marks)

