

**MANIPAL UNIVERSITY****FINAL BDS PART – I DEGREE EXAMINATION – JANUARY 2010****SUBJECT: ORTHODONTICS (ESSAY)**

Saturday, January 16, 2010

Time: 14:30 – 17:00 Hrs.

Maximum Marks: 80

1. Write in detail about thumb sucking habit.

(10 marks)

**2. Write short notes on:**

2A. Orthodontic retainers and ideal requirements.

2B. Features of angle's class II div 2 malocclusion.

2C. Activator, indications, contra-indications and mode of action.

2D. Enlow's counterpart principle.

2E. Molar distalization.

2F. Management of anterior crossbite.

2G. Factors to be considered while considering a case for space maintenance.

2H. Muscle exercises and its relevance in orthodontics, add a note on exercises to improve lip tonicity.

2I. Gum pads.

2J. Premolar extractions.

(5×10 = 50 marks)

**3. Write short answers on:**

3A. Lee way space of nance

3B. Lingual holding arch

3C. Intrusion

3D. Simon's law of canine

3E. Infant orthopedics in cleft lip and palate

3F. Angle of convexity

3G. Tertiary crowding

3H. Naso labial angle

3I. FMA

3J. Define retention.

(2×10 = 20 marks)



**MANIPAL UNIVERSITY****FINAL BDS PART – I DEGREE EXAMINATION – JULY 2010****SUBJECT: ORTHODONTICS (ESSAY)**

Saturday, July 24, 2010

Time: 14:30 – 17:00 Hrs.

Maximum Marks: 80

1. Write on the Frankel appliance and explain in detail about the FR2. (10 marks)
2. Write short notes on:
- 2A. Differential growth
  - 2B. Prenatal development of the face and the palate
  - 2C. Gum pads
  - 2D. Trajectories of force
  - 2E. Extra oral examination
  - 2F. SNA, SNB and ANB
  - 2G. Boltons analysis
  - 2H. Lag phase and hyalinisation
  - 2I. Retainers
  - 2J. Management of midline diastema. (5×10 = 50 marks)
3. Write short answers on:
- 3A. Veaus classification of CLP
  - 3B. Enumerate the cranial base synchondroses and fusion timings
  - 3C. Features of Class II Div I malocclusion
  - 3D. Enumerate the various causes of relapse
  - 3E. Mention the sequence of serial extraction in Dewels method
  - 3F. Define stationary anchorage and simple anchorage
  - 3G. Distal shoe space maintainer – indications and structure
  - 3H. Principles of spot welding
  - 3I. Features of skeletal deep bite
  - 3J. Composition of solder. (2×10 = 20 marks)

