

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**FINAL BDS PART – I DEGREE EXAMINATION – JANUARY 2021**  
**SUBJECT: ORTHODONTICS (ESSAY)**  
**(OLD REGULATION)**

Wednesday, January 13, 2021

Time: 14:30 – 17:00 Hrs.

Maximum Marks: 80

✍ **Answer ALL the questions.**

1. Diagnostic considerations and management of deep bite cases.

(10 marks)

2. **Write short notes on:**

- 2A. Management of tongue thrusting habit
- 2B. Spheno-occipital synchondrosis
- 2C. Chin-cup
- 2D. Extra-oral anchorage
- 2E. Orthodontic study model
- 2F. Banding vs bonding
- 2G. Diagnostic considerations for serial extraction procedures
- 2H. Wilkinson's extractions
- 2I. Simon's classification
- 2J. Principles of use of head gear

(5 marks × 10 = 50 marks)

3. **Write short answers on:**

- 3A. Optimum orthodontic force
- 3B. Frankfort horizontal plane
- 3C. Center of resistance
- 3D. Growth center
- 3E. Quad helix
- 3F. Spring aligner
- 3G. Veau's classification of cleft lip and palate
- 3H. Bodily tooth movement
- 3I. SVED appliance
- 3J. Corticotomy

(2 marks × 10 = 20 marks)

