

Reg. No.

**MANIPAL ACADEMY OF HIGHER EDUCATION**  
**FINAL BDS PART – I DEGREE EXAMINATION – AUGUST 2021**  
**SUBJECT: ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS (ESSAY)**  
Monday, August 23, 2021

Time: 14:15 – 17:00 Hrs.

Maximum Marks: 60

✍ **Answer ALL questions.**

✍ **Long questions:**

1. List the theories of tooth movement. Write in detail about the piezoelectric theory. Add a note on phases of tooth movement.

(3+4+3 = 10 marks)

2. List the various classifications of malocclusions. Write in detail about the Angles classification. Add a note on Ackerman Proffit. Classification.

(3+4+3 = 10 marks)

3. **Write short notes on:**

3A. Supernumerary tooth. Add a note on mesiodens

3B. Profile assessment

3C. Tweed's triangle

3D. Head gear- Types and Uses

3E. Serial Extraction- Rationale and Indications

3F. Rapid maxillary expansion – Indications and Effects

3G. Carey's and arch perimeter analysis

3H. Herbst appliance

3I. Simple versus complex tongue thrusting habit

3J. Hawley's appliance

(4 marks × 10 = 40 marks)

