

Reg. No.

MANIPAL ACADEMY OF HIGHER EDUCATION

**MDS PART - I (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS) DEGREE
EXAMINATION – JUNE 2021**

SUBJECT: PAPER I – APPLIED BASIC SCIENCES

Monday, June 07, 2021

Time: 10:00 – 13:00 Hrs.

Max. Marks: 100

- ✍ Write legibly.
- ✍ Draw diagrams wherever necessary.

1. Evolution of orthodontic archwires.
2. Describe the types of bone formation. Explain “FROST” mechanostat model.
3. Inheritability of malocclusions.
4. Discuss the role of mandibular growth in relation to changes in the facial profile during development.
5. Adhesives in orthodontics.
6. Recent modifications in the Functional Matrix Hypothesis.
7. Role of chemical messengers during orthodontic tooth movement.
8. Transient malocclusions.
9. List the sequelae of malocclusions. Add a note on Dewey’s modification of Angle’s system.
10. Describe Bennett movement and Bennett angle.

(10 marks × 10 = 100 marks)

