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# MANIPAL ACADEMY OF HIGHER EDUCATION

MDS PART - I (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS) DEGREE EXAMINATION – SEPTEMBER 2024

**SUBJECT: PAPER I – APPLIED BASIC SCIENCES**

Monday, September 09, 2024

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

✍ **Draw diagrams and flowchart where necessary.**

1. Functional Matrix hypothesis.
2. Development of Occlusion.
3. Parathyroid metabolism and its significance in orthodontics.
4. Twin Studies.
5. Nanotechnology in orthodontics.
6. Evolution of TMJ.
7. Growth Rotations.
8. Paired t test.
9. Latest Advances in Bonding Protocols.
10. Arch wires in Orthodontics.

(10 marks × 10 = 100 marks)

