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MANIPAL ACADEMY OF HIGHER EDUCATION

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

SUBJECT: PAPER I – APPLIED BASIC SCIENCES

Monday, May 06, 2024

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ **Answer all the questions.**

✍ **Draw Diagrams wherever necessary.**

1. Explain Van Limborgh's theory of Growth with its significance.
2. Discuss the Metabolism & clinical significance of Calcium.
3. Describe the embryological basis of Cleft Lip/Palate.
4. Briefly describe the Importance of Homeobox genes.
5. Explain in detail Enlows V Principle with its significance.
6. Discuss the Evolutionary perspective on Mandible.
7. Importance of Portal Muscles and its applied clinical significance.
8. List out in brief the methods of studying Growth.
9. Arcial growth theory and its implications.
10. Contributions of Bjork in the field of Growth.

(10 marks × 10 = 100 marks)

