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# MANIPAL ACADEMY OF HIGHER EDUCATION

MDS PART - I (ORTHODONTICS AND DENTOFACIAL ORTHOPAEDICS) DEGREE  
EXAMINATION – JULY 2020

SUBJECT: PAPER I – APPLIED BASIC SCIENCES

Friday, July 03, 2020

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

✍ Write legibly.

✍ Illustrate your answers with diagrams and flowcharts wherever necessary.

1. Describe the development of hard palate and its developmental anomalies with clinical implications.
2. Discuss pattern, variability and timing of growth.
3. Write on the Nutritional factors in growth and development.
4. Define and enumerate the various Skeletal Maturity indicators and discuss Cervical Vertebrae Maturity indicator.
5. Write a short note on hereditary traits in families and its implications on Orthodontics.
6. Parametric and Non-Parametric tests of significance in Biostatistics
7. Discuss salivary biomarkers and its relevance in Orthodontics.
8. Write on contemporary Orthodontic wire properties.
9. Write in brief on systematic reviews and enumerate a minimum of three systematic reviews in Orthodontics.
10. Discuss Longitudinal growth studies.

(10 marks × 10 = 100 marks)

