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# MANIPAL ACADEMY OF HIGHER EDUCATION

MDS PART - I (PEDIATRIC & PREVENTIVE DENTISTRY) DEGREE EXAMINATION - NOVEMBER 2022

SUBJECT: PAPER I – APPLIED BASIC SCIENCES

Thursday, November 03, 2022

Time: 14:00 – 17:00 Hrs.

Max. Marks: 100

☞ Answer ALL the questions.

☞ Illustrate your answers with diagrams, flow charts wherever appropriate.

1. Discuss carbohydrates and their role in dental caries.
2. Discuss antibiotics in children. Add a note on antibiotic resistance.
3. Discuss the respiratory system of a child and write on the mechanism of action of nitrous oxide oxygen sedation.
4. Describe post-natal growth of the maxilla with clinical implications.
5. Discuss the pathophysiology of anaphylactic shock and its management in children
6. Describe the course of the trigeminal nerve in detail
7. Discuss the nerve supply of mandibular second primary molar and explain the inferior alveolar nerve block in context to extraction of tooth 85 in a 4 year old child
8. Write in detail on the muscles of mastication.
9. Write on acute lymphocytic leukemia (ALL) and add a note on the management of a 3 year child with ALL requiring extraction of tooth 75.
10. Write on measures of central tendency. Add a note on standard deviation.

(10 marks × 10 = 100 marks)

