

QP Code: 131232

Reg. No.....

**MDS Part I Degree Regular/Supplementary Examinations  
January 2024**

**Pediatric and Preventive Dentistry**

**Paper 1- Applied Basic Sciences: Applied Anatomy, Physiology, and  
Biochemistry, Pathology, Microbiology, Pharmacology, Research Methodology  
and Biostatistics Growth and Development and Dental plaque, Genetics  
(2021 Scheme)**

Time: 3 Hrs

Max marks: 100

- *Answer all questions to the point neatly and legibly • Do not leave any blank pages between answers • Indicate the question number correctly for the answer in the margin space*
- *Answer all parts of a single question together • Leave sufficient space between answers*
- *Draw Diagrams wherever necessary.*

**Essays**

**(10x10=100)**

1. Explain in detail the salivary antibacterial substances.
2. Classify antimicrobial agents based on the mechanism of action. Write a note on beta lactamase inhibitors and metronidazole.
3. Define the term "hemostasis" and blood coagulation. Explain the intrinsic mechanism of blood coagulation.
4. Define balanced diet. Explain in detail protein energy malnutrition.
5. Describe the oral manifestations of Acquired immunodeficiency syndrome in a pediatric patient.
6. Explain in detail the phases of deglutition. Add a note on the disorders of swallowing.
7. Muscles of tongue.
8. Inborn errors of metabolism.
9. Ethical consideration in clinical research.
10. Role of genetics in the development of dental anomalies.

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