

# Rajiv Gandhi University of Health Sciences, Karnataka

## M.D.S Degree (Part-I) Examination - 19-Nov-2024

**[Time: 3 Hours]****[Max. Marks: 100]**

### PERIODONTOLOGY

**Paper-I: Applied Basic Sciences: Applied Anatomy,  
Physiology, and Biochemistry, Pathology, Microbiology,  
Pharmacology, Research Methodology and Biostatistics  
(Revised Scheme-5)**

**Q.P. CODE: 6055**

Your answers should be specific to the questions asked.  
Draw neat labeled diagrams wherever necessary.

**Answer All The Questions**

**10 X 10 = 100 Marks**

1. Discuss calcium metabolism.
2. Define Null Hypothesis. Describe with suitable examples its importance in research methodology.
3. Describe the clinical significance of dental biofilm.
4. Discuss the recent advances in sterilization and disinfection.
5. Describe the role of reactive oxygen species (ROS) in Periodontitis.
6. Inflammatory mediators.
7. Define fascial spaces. Describe the different spaces around maxillary and mandibular region.
8. Discuss various methods of blinding in research methodology.
9. Discuss "Alveolar Bone is in constant state of Flux".
10. Describe the role of platelets in hemostasis.

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