**ST. GREGORIOS DENTAL COLLEGE, CHELAD**

**Reg. No.: .....................**  
**First Year BDS (2024 Batch) Degree Regular I Internal Examinations, January 2025**

**General Human Physiology and Biochemistry**

**(2016 Scheme)  
Time: 3 hrs Max marks: 70**  
**• 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  
• Write section A and section B in separate answer books (20 pages). Do not mix up questions  
from section A and section B**

**Q P Code: 112002 Section A: Physiology Max Marks: 35**

**Essay: (2+6+2=10)**

1.Define Hemostasis. Explain the mechanisms involved in hemostasis. Mention

any two disorders. (CO1, K1)

**Short Notes: (2x5=10)**2. Describe the phases of cardiac cycle with the help of suitable diagrams. (CO1, K2)  
3. What is deglutition? Explain the pharyngeal stage. Mention a disorder. (CO1, K1)

**Answer Briefly: (5x3=15)**4. Typical ECG with waves and intervals. (CO2, K2)  
5. Baroreceptor reflex mechanism of regulation of BP. (CO2, K2)  
6. Pernicious anemia. (CO1, K1)  
7. Mucosal Barrier. (CO1, K1)

8. Mastication. (CO1, K1)

**Q P Code: 113002 Section B: Biochemistry Max Marks: 35**

**Essay: (6+4=10)**  
1. Describe the structural organization of proteins. Add a note on protein

denaturation. (CO1, K1)

**Short Notes:**2. Explain the formation and functions of calcitriol. (CO1&CO3, K1&K4) **(3+2=5)**  
3. Classify compound lipids with examples and its functions. (CO1, K1) **(5)**

**Answer Briefly: (5x3=15)**4 Structure of tRNA. (CO5, K3)  
5. Deficiency manifestations of Vitamin A. (CO3, K4)  
6. Essential fatty acids and its functions. (CO1, K1)   
7. Biologically important nucleotides. (CO1&CO5, K1&K3)

8. Significance of dietary fibers. (CO2, K2)

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