**ST. GREGORIOS DENTAL COLLEGE, CHELAD**

**Reg. No.: .....................**  
**First Year BDS Degree Regular I Internal Examinations, July 2022**

**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 (32 pages). Do not mix up questions  
from section A and section B**

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

**Essay: (2+5+3=10 )** 1. Define cardiac cycle with normal timings. Describe in detail about mechanical

events and its correlation with arterial and ventricular pressure changes, volume

Changes and heart sounds. CO4, K4

**Short Notes: (2x5=10)**2. Erythropoiesis and mention factors influencing it. CO1, K2  
3. Explain the Intrinsic and Extrinsic pathways of coagulation. CO2, K2

**Answer Briefly: (5x3=15)**4. Mastication. CO1, K2  
5. Pharyngeal stage of deglutition. CO2, K2  
6. Pernicious anemia. CO1, K2  
7. Typical electrocardiogram or Limb lead II record. CO1, K2

8. Cell mediated immunity. CO1, K3

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

**Essay: (2+3+4+1=10)**  
1. Define denaturation of proteins. What are the factors that affect denaturation?

Describe the features of denatured product. Give one example. CO2, K2

**Short Notes: (2x5=10)**2. Essential fatty acids and its functions. CO1, K3  
3. Mention the composition of glycosaminoglycans and its functions with examples.

CO1, K2

**Answer Briefly: (5x3=15)**4 Glutathione and its significance. CO3, K3  
5. Lipoproteins and its functions. CO1, K2  
6. What are epimers? Mention two examples. CO1, K2  
7. Label secondary structure of proteins. CO1, K2

8. Name three phospholipids with its composition and functions. CO1, K2