**ST.GREGORIOS DENTAL COLLEGE**

**Reg. No.: .....................**  
**First Year BDS Degree Regular I Internal Examinations March 2023**

**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: ( 7+3=10 )** 1. Explain the phases of cardiac cycle with the help of suitable diagrams. How can

you link cardiac cycle with ECG and heart sounds. CO4, K4  
**Short Notes: (2x5=10)**2. Intrinsic mechanism of blood coagulation. CO2, K2  
3. What is deglutition? Explain the pharyngeal stage of deglutition. How it is

regulated. CO4, K3  
**Answer Briefly: (5x3=15)**4. Mastication. CO1, K2  
5. Erythropoiesis. CO1, K2  
6. Determinants of cardiac output. CO3, K2  
7. Neutrophil. CO1, K2

8. Features of cardiac muscles. CO1, K2

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

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

protein denaturation. CO1, K2  
**Short Notes: (2x5=10)**2. Heteropolysaccharides and its functions. CO1, K2  
3. Describe the classification of compound lipids with examples and its functions.

CO3, K2  
**Answer Briefly: (5x3=15)**4 Dietary fibers. CO2, K2  
5. Essential aminoacids. CO1, K2  
6. Polyunsaturated fatty acids. CO1, K2  
7. Biologically important peptides. CO1, K2

8. Functions of cholesterol. CO3, K2

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