**ST.GREGORIOS DENTAL COLLEGE**

**Reg. No.: .....................**  
**First Year BDS Degree Regular II Internal Examinations June 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: ( 2+5+3=10 )** 1. Define gastric secretions. Explain the phases of gastric secretion and regulation.

Add a note on Peptic ulcer. CO1, K2  
**Short Notes: (2x5=10)**2. Explain the two methods of O2 transport with O2 dissociation curve. CO2, K2  
3. Define GFR and explain the factors maintaining GFR. CO1, K2  
**Answer Briefly: (5x3=15)**4. Timed Vital Capacity. CO1, K2  
5. Functions of liver. CO3, K3  
6. Short term regulation of Blood pressure. CO3, K2  
7. Blood transfusion reactions. CO2, K2

8. ADH (Vasopressin). CO1, K2

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

**Essay: (7+3=10)**  
1. Explain enzyme classification with one example. Describe diagnostic importance

of three enzymes. CO1&CO4, K4  
**Short Notes: (2x5=10)**2. Discuss biochemical functions of Vitamin A. CO1, K2  
3. Outline the reactions of gluconeogenesis from Lactate. CO3, K2  
**Answer Briefly: (5x3=15)**4 Regulation of blood calcium level. CO3, K2  
5. Lactose intolerance. CO2, K2  
6. Oxidative phosphorylation. CO3, K2  
7. Immunoglobulins. CO1, K2

8. Substrate level phosphorylation with two examples. CO3, K2

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