**ST.GREGORIOS DENTAL COLLEGE**

**Reg. No.: .....................**  
**First Year BDS Degree Regular II Internal Examinations July 2021**

**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, K3  
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, K2  
6. Short term regulation of Blood pressure. CO3, K3  
7. Blood transfusion reactions. CO2, K4

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, K3  
5. Lactose intolerance. CO2, K2  
6. Oxidative phosphorylation. CO3, K2  
7. Immunoglobulins. CO1, K2

8. Substrate level phosphorylation with two examples. CO3, K3

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