**ST. GREGORIOS DENTAL COLLEGE**

**Reg. No.: .....................**  
**First Year BDS Degree Supplementary I Internal Examinations April 2024**

**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: (3+3+4=10 )** 1. What is the composition and functions of saliva. Describe the regulation of

secretion of saliva. CO2, K3  
**Short Notes: (2x5=10)**2. Define GFR. Explain the determinants of GFR. CO2, K2  
3. ABO system of Blood grouping and Hazards of Blood Transfusion. CO2, K4  
**Answer Briefly: (5x3=15)**4. Platelets. CO1, K2  
5. Typical ECG. CO1, K2  
6. Vital Capacity. CO2, K3  
7. Hypoxic hypoxia. CO1, K2

8. Baroreceptor reflex mechanism for regulation of ABP. CO2, K2

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

**Essay: (6+4=10)**  
1. Classify enzymes with one example and its reaction. Explain any four factors

affecting enzyme activity. CO1, K2  
**Short Notes:**2. Explain the process of glycogenolysis and its regulation. CO3, K3 **(3+2=5)**  
3. Describe ketogenesis and mention complications associated with excess ketone

body formation. CO3, K3 **(3+2=5)**  
**Answer Briefly: (5x3=15)**4 Creatinine clearance test. CO4, K3  
5. Hyperuricemia. CO3, K3  
6. Immunoglobulins. CO1, K2  
7. Differential diagnosis of jaundice. CO4, K3

8. Lactose intolerance. CO3, K3

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