**ST.GREGORIOS DENTAL COLLEGE**

**Reg. No.: .....................**  
**First Year BDS Degree Supplementary Internal Examination August 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+6+2=10 )** 1. Define Cardiac output and describe the factors regulating cardiac output. Briefly

describe any one method for its determination. CO1, K2

**Short Notes: (2x5=10)**2. Describe transport of CO2 in blood and Haldane’s effect. CO2, K2  
3. Describe the events and control of second stage of deglutition. CO1&CO2, K3

**Answer Briefly: (5x3=15)**4. Referred pain. CO1, K2  
5. Functions of middle ear. CO3, K3  
6. Re-absorption of water in renal tubules. CO2, K2  
7. Mention the causes and clinical features of acromegaly. CO3, K3

8. Pernicious anemia. CO2, K2

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

**Essay: (10)**  
1. Describe five different types of enzyme inhibitions with examples. CO1, K2

**Short Notes:**2. Explain transamination reaction with example and its significance. CO2, K2 **(5)**  
3. Describe the formation, activation and functions of vitamin D. CO3, K3 **(1+2+2=5)**

**Answer Briefly: (5x3=15)**4 Key gluconeogenic enzymes. CO1, K2  
5. Protein energy malnutrition. CO3, K3  
6. Differential diagnosis of jaundice. CO3, K3  
7. Ketogenesis and its significance. CO2, K2

8. Genetic code. CO2, K2

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