**ST. GREGORIOS DENTAL COLLEGE, CHELAD**

**Reg. No.: .....................**  
**First Year l BDS Degree Regular Model Examinations, December 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+4+3+1=10)** 1. Define blood pressure and mention its normal values. Describe the determinants

of arterial blood pressure. Explain short term regulation of BP. Mention

hypertension. (CO2, K2)

**Short Notes: (2x5=10)**2. What is pain? Sketch and label the pain pathway. Mention referred pain.(CO2,K2)  
3. Describe transport of carbon dioxide in blood and Haldane’s effect. (CO2, K2)

**Answer Briefly: (5x3=15)**4. Rh incompatibility. (CO2, K3)  
5. Digestive enzymes of pancreas. (CO1, K2)  
6. List the contraceptive methods in females. (CO2, K2)  
7. Cushing’s syndrome. (CO1, K2)

8. Micturition reflex. (CO1, K2)

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

**Essay: (2+8=10)**  
1. Describe respiratory and renal mechanism in acid base balance. (CO1+CO4, K4)

**Short Notes:**2. Explain the causes and differential diagnosis of jaundice. (CO4, K4) **(2+3=5)**  
3. Evaluate the role of five factors that affect enzyme activity. (CO1, K2) **(5)**

**Answer Briefly: (5x3=15)**4 Gout. (CO5, K4)  
5. Dental fluorosis. (CO4, K3)  
6. Creatinine clearance test. (CO4, K3)  
7. Protein Caloric Malnutrition. (CO3, K3)

8. How diabetes mellitus leads to metabolic acidosis. (CO3, K4)

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