**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)

 \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*