**ST. GREGORIOS DENTAL COLLEGE, CHELAD**

**Reg. No.: .....................**

**First BDS Degree Regular/Supplementary Model Examinations, September 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: (2+5+3=10)**  
1. List any two sensory pathways. With the help of a labelled diagram explain pathway

for pain sensation. Add a note on referred pain. CO2, K1  
**Short Notes: (2x5=10)**2. Enumerate adrenal hormones. Describe the functions of glucocorticoids. Mention

disorders. CO2, K1  
3. Exocrine functions of pancreas. CO3, K2  
**Answer Briefly: (5x3=15)**4 Typical ECG. CO1, K1  
5. Refractive errors of eye and its corrections. CO2, K2  
6. Sketch out taste pathway. Write down the primary taste modalities. CO2, K1  
7. Oral contraceptives. CO2, K1

8. Vital Capacity. CO2, K1

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

**Essay: (1+3+6=10)**  
1. What is the normal serum bilirubin level. Describe the formation of bilirubin. Explain

the causes and biochemical alterations in blood and urine in different types of

jaundice. CO6, K4  
**Short Notes:**2. Mention any six functions and deficiency manifestations of ascorbic acid. CO2,K2

**(3+2=5)**  
3. Describe the formation and utilization of ketone bodies. CO3, K4 **(2+3=5)  
Answer Briefly: (5x3=15)**4. Significance of pentose phosphate pathway. CO1, K1  
5. Gout. CO2, K2  
6. Biological functions, deficiency and toxicity of fluoride. CO2, K2  
7. Transamination and its significance. CO3, K4

8. Competitive inhibition of enzymes with two examples. CO5, K3