**ST. GREGORIOS DENTAL COLLEGE**

**Reg. No.: .....................**  
**First Year lll Internal BDS (2021 Batch) Degree Regular/Supplementary Examinations December 2022**

**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: (5+2+3=10)**  
1. Trace pain pathway from left leg, explain fibers and neurotransmitters. Add a note on referred pain.CO2, K2  
**Short Notes: (2x5=10)**2. Explain the functions of glucocorticoids and Cushing’s syndrome.CO1, K2  
3. Second stage of Deglutition.CO2, K3  
**Answer Briefly: (5x3=15)**4. Refractory errors of eye.CO1, K3  
5. Taste Pathway.CO1, K2  
6. Myxoedema.CO1, K2  
7. Functions of bile.CO1, K2

8. Functions of Thalamus.CO1, K2

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

**Essay: (1+1+5+3=10)**  
1. Describe the sources, RDA, biochemical functions and deficiency manifestations

of ascorbic acid.CO1 &CO3, K3  
**Short Notes: (2x5=10)**2. Explain the disorders associated with aromatic aminoacid metabolism.CO3, K2  
3. Discuss in detail blood glucose regulation in the fasting state.CO3, K2  
**Answer Briefly: (5x3=15)**4. Role of kidney in acid base balance.CO4, K3  
5. Significance of pentose phosphate pathway. CO3, K2  
6. Hemolytic jaundice.CO3 & CO6, K4  
7. Creatinine clearance test.CO4, K3

8. Diabetic ketoacidosis.CO3, K2

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