**ST. GREGORIOS DENTAL COLLEGE, CHELAD**

**Reg. No.: .....................**  
**First Year BDS Degree Regular III Internal Examinations, June 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: (1+3+4+2=10 )**

1. What is Thyroxin? Explain synthesis of thyroxin. How thyroxin is involved in

metabolism. Mention two disorders.CO1&CO3, K3

**Short Notes: (2x5=10)**2. Explain the structure of NMJ and Neuromuscular Transmission. CO2, K2   
3. Describe the visual pathway with the help of a diagram. CO2, K2

**Answer Briefly: (5x3=15)**4. Urinary bladder and Micturition reflex. CO1, K2  
5. Thermoregulatory responses while body is exposed to cold environment. CO2, K3  
6. Mouth to mouth method of artificial respiration. CO3, K4  
7. Functions of Oxytocin. CO1, K2

8. Errors of refraction and its correction. CO3, K3

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

**Essay: (1+3+4+2=10)**  
1. Describe the steps involved in activation of fatty acid, role of carnitine transport

system and beta oxidation of palmitic acid. Add a note on its energetics. CO3, K3

**Short Notes:**2. Explain hormonal regulation of blood glucose level. CO1&CO3, K3 **(5)**3. Enlist the steps involved in detoxification of ammonia and any two disorders

associated with it. CO3, K3 **(3+2=5)**

**Answer Briefly: (5x3=15)**4 Functions of lipoproteins. CO1, K2  
5. Diabetes mellitus. CO3, K3  
6. Key gluconeogenic enzymes. CO3, K3   
7. Ketosis. CO3, K3

8. Transamination and its significance. CO3,K3

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