**ST. GREGORIOS DENTAL COLLEGE**

**Reg. No.: .....................**  
**First Year BDS Degree Supplementary II Internal Examinations May 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+6+2=10 )**

1. Define pain. Sketch out the pain pathway. Mention the referred pain. CO1& CO2

K2

**Short Notes: (2x5=10)**2. Discuss the physiological actions of thyroxine. CO2, K3  
3. Structure and transmissions of neuromuscular junction. CO1, K2

**Answer Briefly: (5x3=15)**4. Spermatogenesis. CO1, K2  
5. Presbyopia and its correction. CO2, K3  
6. Functions of middle ear. CO2, K3  
7. Draw a neat labelled diagram of taste pathway. CO1, K2

8. Dwarfism. CO1, K3

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

**Essay: (4+4+1+1=10)**  
1. Describe absorption, transport, storage and excretion of iron in the body. CO2, K2

**Short Notes:**2. Explain detoxification of ammonia in liver. Mention two disorders associated

with it. CO3,K3 **(3+2=5)**  
3. Write the functions and deficiency of calcitriol. CO1&CO3, K3 **(3+2=5)**

**Answer Briefly: (5x3=15)**4 Beri-beri. CO3, K3  
5. Metabolic acidosis. CO4, K3  
6. Transmethylation and its significance. CO3, K2  
7. Deficiency of retinol. CO3, K3

8. Dental fluorosis. CO3, K3

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