**ST. GREGORIOS DENTAL COLLEGE**

**Reg. No.: .....................**  
**First Year l BDS Degree Regular Model Examinations February 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: ( 2+4+2+2=10)** 1. What is hemostasis? Explain the intrinsic mechanism of blood coagulation.

mention any two anticoagulants. Name any one disorder. CO1 & CO2, K3  
**Short Notes: (2x5=10)**2. Describe arterial BP. What are the determinants? CO1, K2  
3. Describe the respiratory centers and neural regulation of respiration. CO2, K3  
**Answer Briefly: (5x3=15)**4. Referred pain. CO1, K2  
5. Prolactin. CO1, K2  
6. Contraception in females. CO2, K2  
7. Micturition reflex. CO1, K2

8. Functions of Liver. CO1, K3

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

**Essay: (1+6+3=10)**  
1. Mention normal serum bilirubin level. Explain the steps involved in the formation

and excretion of bilirubin. Describe differential diagnosis of jaundice. CO1 & CO3,

K3  
**Short Notes: (2x5=10)**2. Explain different types of enzyme inhibitions with one example. CO2, K2  
3. Write the sources, biochemical functions and deficiency diseases of ascorbic acid.

CO2, K2  
**Answer Briefly: (5x3=15)**4 DNA replication. CO1, K2  
5. Steps in β-oxidation of fatty acids. CO2, K2  
6. Digestion and absorption of carbohydrates. CO1, K2  
7. Kidney function tests. CO3, K3

8.Transmethylation reaction and its significance.CO1, K2

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