**ST. GREGORIOS DENTAL COLLEGE**

**First Year BDS Degree Regular III Internal Examinations, October 2021**

**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: (10)**  
1. Name the hormones secreted by adrenal cortex. Describe the actions of

glucocorticoids and describe the symptoms of Addison’s disease. CO2 &CO3, K2  
**Short Notes: (2x5=10)**2. Explain the endometrial changes and hormonal regulation of female reproductive

cycle. CO2, K2  
3. Describe the visual pathway with the help of a diagram. CO2, K2  
**Answer Briefly: (5x3=15)**4 Thermoregulation in response to hot climate. CO3, K3  
5. Oral contraceptives with mechanism of actions. CO3, K3  
6. Functions of middle ear. CO2, K3  
7. Mention the causes and clinical features of acromegaly. CO2, K2

8. Spermatogenesis. CO2, K2

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

**Essay: (10)**  
1. Describe the reactions of ammonia detoxification in liver and mention the causes

of increased blood urea level. CO3, K3  
**Short Notes: (2x5=10)**2. Explain the functions and deficiency manifestations of ascorbic acid. CO2, K2  
3. Describe the role of kidney in regulation of acid base balance. CO2, K3  
**Answer Briefly: (5x3=15)**4 Antigen detection by ELIZA. CO3, K3  
5. Hyper uricemia and its causes. CO3, K2  
6. Metabolic Alkalosis. CO3, K2  
7. Antibiotics interfering translation process. CO3, K2

8. Mention three differences between kwashiorkor and marasmus. CO2, K2

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