

Reg. No.: .....

**First Year BDS Degree Supplementary Examinations May 2025**

**General Human Physiology and Biochemistry**

**(2016 Scheme)**

**Time: 3 Hours**

**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.*

**QP CODE: 112002**

**Section A - Physiology**

**Marks: 35**

**Essay:**

**(10)**

1. Define GFR. Mention its normal value. Describe the factors regulating it. (2+1+7)

**Short Notes:**

**(2x5=10)**

2. Describe the composition and functions of Surfactant.  
3. Errors of refraction.

**Brief Notes:**

**(5x3=15)**

4. Enumerate the clinical features of Cushing's syndrome.  
5. Enumerate the functions of Bile.  
6. Write the morphological classification of Anaemia with examples  
7. Neuromuscular transmission.  
8. Referred pain.

**QP CODE:113002**

**Section B - Biochemistry**

**Marks: 35**

**Essay:**

**(10)**

1. Describe the sources, daily requirements, deficiency manifestations of vitamin D. Add a note on the role of vitamin D in serum calcium homeostasis

**Short Notes:**

**(2x5=10)**

2. Explain the factors affecting enzyme action  
3. Classify carbohydrates with examples. Add a note on epimerism

**Brief Notes:**

**(5x3=15)**

4. Nitrogen balance  
5. High energy compounds  
6. Functions of lipoproteins  
7. Blood buffers  
8. Watson-Crick model of DNA

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