

**First Year BDS Degree Regular/Supplementary Examinations
September 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. Describe the structure of Neuromuscular Junction with a neat labelled diagram and the mechanism of transmission of impulse across it. What is Myasthenia Gravis. (2+1+6+2)

Short Notes:

(2x5=10)

2. Define Hypoxia. Explain the types with example.
3. Composition and functions of saliva.

Brief Notes:

(5x3=15)

4. Enumerate the complications of mismatched blood transfusion.
5. Explain the mechanism of oral contraceptive pills.
6. Enumerate non excretory functions of Kidney.
7. Heart sounds.
8. Parathyroid hormone.

QP CODE:113002

Section B - Biochemistry

Marks: 35

Essay:

(10)

1. Describe sources, biochemical functions, uptake, transport and deficiency manifestation of iron.

Short Notes:

(2x5=10)

2. What is the normal blood glucose level in fasting and post prandial state. Add a note on hormonal regulation of blood glucose.
3. Classify enzymes with examples.

Brief Notes:

(5x3=15)

4. Essential fatty acids.
5. Metabolic acidosis.
6. Secondary structure of proteins.
7. Electron transport chain.
8. Structure of t-RNA.
