

# 2010 Scheme

Reg. No.: .....

## First Year BDS Degree Supplementary Examinations January 2022

### General Human Physiology and Biochemistry

Time: 3 Hours

Max Marks: 100

- 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:102002

Section A - Physiology

Marks: 50

Essay

(14)

1. List the hormones secreted from anterior pituitary. Describe the actions of thyroid hormones. Add a note on the regulation of thyroid hormone secretion. (3+6+5)

Short essays

(2x8=16)

2. Describe composition, functions of saliva. Mention the mechanisms for its regulation. (2+4+2)
3. Describe the ABO blood group. Mention the hazards of blood transfusion (4+4)

Short notes

(5x4=20)

4. Active transport
5. Normal ECG waves
6. Pulmonary surfactant
7. Juxtaglomerular apparatus
8. Properties of synapses

QP CODE:103002

Section B - Biochemistry

Marks: 50

Essay

(14)

1. Define glycolysis. Explain the steps of anaerobic glycolysis with energetics. Add a note on Cori's cycle. (1+10+3)

Short essays

(2x8=16)

2. Describe ketogenesis and ketolysis
3. Give the sources, biochemical functions, deficiency diseases of vitamin C

Short notes

(5x4=20)

4. Compounds formed from glycine
5. Describe the regulation of serum calcium level
6. Describe the role of kidney in regulation of blood pH
7. Name the liver function tests
8. Define competitive inhibition of enzymes and give three examples

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