

2010 Scheme

Reg. No.:

First Year BDS Degree Supplementary Examinations September 2023

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. Describe the Oxygen-haemoglobin Dissociation Curve (ODC) using a diagram. List the factors causing shift of the ODC to the right. Add a note on hypoxia (6+3+5)

Short essays

(2x8=16)

2. Describe the Endometrial & Hormonal changes during the different phases of Menstrual cycle (4+4)
3. Classify Transport across cell membrane. Explain primary & secondary active transport with example.. (2+6)

Short notes

(5x4=20)

4. Composition and functions of bile.
5. Explain functions of Growth Hormone.
6. Special features of coronary circulation
7. Describe Juxta-Glomerular Apparatus (JGA) using a suitable diagram.
8. Explain the process of Synaptic Transmission

QP CODE:103002

Section B - Biochemistry

Marks: 50

Essay

(14)

1. Explain the formation of ammonia in the body and write the reactions of urea cycle. Add a note on nitrogen balance. (6+4+4)

Short essays

(2x8=16)

2. Write the reactions of glycolytic pathway. Add a note on lactose intolerance.
3. Describe beta oxidation of palmitic acid with a note on energetics. List the compounds formed from cholesterol. (6+2)

Short notes

(5x4=20)

4. Classify enzymes with examples.
5. Explain the biochemical functions and deficiency manifestations of thiamine.
6. Write the sources and deficiency manifestations of (a) Iodine (b) Fluoride
7. Outline of translation process.
8. Role of liver function tests in evaluation of jaundice.
