

First Year BDS Degree Supplementary Examinations January 2019

General Human Physiology and Biochemistry

(2016 Scheme)

Time: 3 Hours

Max Marks: 70

- Answer all questions
- 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. What is erythropoiesis. Describe the stages and the factors influencing it. (1+6+3)

Short Notes:

(2x5=10)

2. Describe oxygen dissociation curve.
3. Draw a labelled diagram of Juxta-glomerular apparatus. What are its functions.

Brief Notes:

(5x3=15)

4. Functions of thalamus.
5. Define blood pressure and mention its normal values. List the determinants of blood pressure.
6. Factors regulating gastric emptying.
7. Surfactant.
8. Functions of estrogen.

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Section B - Biochemistry

Marks: 35

Essay:

(10)

1. Describe the steps of glycolysis. Add a note on energetics of aerobic glycolysis.

Short Notes:

(2x5=10)

2. Formation and fate of ketone bodies
3. Urea cycle

Brief Notes:

(5x3=15)

4. Lactose intolerance
5. Functions of calcium
6. Clearance tests
7. Gout
8. Functions of vitamin D