

Reg. No.:

First Year BDS Degree Supplementary Examinations January 2019

General Human Physiology and Biochemistry

(2010 Scheme)

Time: 3 Hours Max Marks: 100

- 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:102002 Section A - Physiology Marks: 50

Essay (14)

1. Explain the transportation of oxygen from lungs to tissues by the blood. Draw an oxygen-hemoglobin dissociation curve and explain the factors influencing the curve with its significance. (5+3+6)

Short essays (2x8=16)

2. Define blood pressure and mention normal values. Describe the short term regulation of blood pressure.

3. "Describe the pathway of pain from face with the help of a labelled diagram

Short notes (5x4=20)

- 4. Describe the uterine changes during menstrual cycle correlating them with hormonal changes.
- 5. Describe the composition and functions of saliva
- 6. Explain the structure and functions of juxtaglomerular apparatus
- 7. What is the basis of Rh blood grouping. Add a note on erythroblastosis foetalis
- 8. Explain the action of insulin on carbohydrate and fat metabolism.

QP CODE:103002 Section B - Biochemistry Marks: 50

Essay (14)

1. Classify enzymes. Explain in detail about the factors that influence the enzyme activity. Describe the competitive inhibition with suitable examples. (3+6+5)

Short essays (2x8=16)

- 2. Describe the steps of glycolysis
- 3. List the source, functions and deficiency manifestations of vitamin B₁₂.

Short notes (5x4=20)

- 4. Urea cycle.
- 5. Functions of RNA.
- 6. Fluorosis.
- 7. Basal Metabolic Rate.
- 8. Catabolism of purine.

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