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First Year BDS Degree Supplementary Examinations August 2017

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. Describe the phases of gastric juice secretion and its regulation. Add a note on gastric ulcer (6+5+3=14)

Short essays (2x8=16)

2. Describe the phases of cardiac cycle with the help of suitable diagrams. Explain the pressure and volume changes occurring in left ventricle during cardiac cycle

3. Define a reflex. Draw the reflex arc and describe the properties of reflex action

Short notes (5x4=20)

- 4. Actions of posterior pituitary hormones
- 5. Re-absorption of water in renal tubules
- 6. Megaloblastic anemia and pernicious anemia
- 7. Functions of bile and gall bladder
- 8. Functions of middle ear

Section B - BIOCHEMISTRY QP CODE:103002

Marks: 50

Essay (14)

1. Outline the reactions of glycolysis. Calculate the energy yield during aerobic and anaerobic glycolysis. Explain the fates of pyruvate.

(6+4+4=14)

Short essays

(2x8=16)

- 2. Discuss vitamin C under the following heads: sources, RDA, functions and deficiency manifestations
- 3. Define: • BMR • specific dynamic action • transamination
 - negative nitrogen balance

Short notes (5x4=20)

- 4. Formation of bilirubin
- 5. Renal regulation of blood pH
- 6. Serum electrophoresis
- 7. Absorption of iron
- 8. Functions of cholesterol

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