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(2010 SCHEME)

Time: 3 Hours

- Answer all guestions
- 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)

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

Short essays

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

Short notes

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

QP CODE:103002

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

Section B - BIOCHEMISTRY

Short essays

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

Short notes

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



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(6+4+4 = 14)

Marks: 50

(14)

(2x8=16)

(5x4=20)

(2x8=16)

Max Marks: 100

(5x4=20)