

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. Describe the natural mechanisms responsible for the arrest of bleeding from small blood vessel. Mention the principle of TWO tests of hemostasis. (8+2)

Short Notes:

(2x5=10)

2. Describe the events and control of second stage of deglutition.
3. Draw a diagram to show the innervation of urinary bladder. Explain micturition reflex.

Brief Notes:

(5x3=15)

4. Factors affecting cardiac output.
5. List TWO forms in which O₂ is transported in blood. Explain Bohr effect.
6. What is normal serum Ca²⁺ level. Actions of hormones responsible for calcium homeostasis.
7. Hormonal changes during menstrual cycle.
8. Name THREE ascending pathways of central nervous system. Mention ONE sensation carried by each pathway.

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Section B - BIOCHEMISTRY

Marks: 35

Essay:

(10)

1. Describe the synthesis and utilization of ketone bodies. Add a note on ketoacidosis. (7+3)

Short Notes:

(2x5=10)

2. Give an account of urea cycle
3. Describe the digestion and absorption of carbohydrates

Brief Notes:

(5x3=15)

4. Causes of jaundice
5. Creatinine clearance
6. Antibiotics interfering in transcription.
7. Specificity of enzymes
8. Functions of vitamin C
