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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)

 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)

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

QP CODE:113002 Section B - BIOCHEMISTRY Marks: 35

Essay: (10)

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

Short Notes: (2x5=10)

- Give an account of urea cycle
- Describe the digestion and absorption of carbohydrates

Brief Notes: (5x3=15)

- Causes of jaundice
- Creatinine clearance
- Antibiotics interfering in transcription.
- Specificity of enzymes
- Functions of vitamin C

