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General Human Physiology and Biochemistry

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. Define cardiac output and cardiac index and mention their normal values. Explain the factors influencing cardiac output. (2+2+10=14)

Short essays (2x8=16)

- 2. Explain the stages of erythropoiesis and list any four factors influencing it.
- 3. Discuss the physiological actions of thyroxine.

Short notes (5x4=20)

- 4. Describe the structure and functions of juxtaglomerular apparatus.
- 5. List the movements of small intestine and explain the functions of small intestine.
- 6. Discuss the hormonal changes during different phases of menstrual cycle.
- 7. Active transport mechanisms.
- 8. Classify hypoxia and explain any one of them

QP CODE:103002 Section B - BIOCHEMISTRY Marks: 50

Essay (14)

1. Enumerate the synthesis, functions, RDA, sources and deficiency manifestations of vitamin D (3+5+1+1+4=14)

Short essays (2x8=16)

- 2. List the classification of enzymes with examples
- 3. Mention the liver function tests and its significance

Short notes (5x4=20)

- 4. Blood buffers
- Absorption of iron
- 6. Protein energy malnutrition
- 7. Classification of lipids
- 8. Significance of HMP shunt pathway
