

**Q.P. CODE: M102A020 (THEORY)**

**DR NTR UNIVERSITY OF HEALTH SCIENCES : VIJAYAWADA- 520008**

**MBBS DEGREE EXAMINATION: AUGUST, 2024**

**FIRST M.B.B.S. EXAMINATION**

**PHYSIOLOGY PAPER-I**

**(Theory Questions)**

**Time: 2 Hour 40 Minutes**

**Max Marks: 80**

**Note: Answer all questions.**

**Draw diagrams, representation wherever necessary.**

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**SECTION-II (THEORY QUESTIONS - 80 MARKS)**

**STRUCTURED ESSAY QUESTIONS:**

**2x15=30**

1. Define cardiac output. Discuss factors affecting cardiac output and add a note on syncope.
2. Discuss the following:
  - a. Nitrogen narcosis
  - b. Dysbarism
  - c. Hypercapnia
  - d. Cheyne-Stokes respiration
  - e. Kussmaul breathing

**SHORT ANSWER QUESTIONS:**

**10x5=50**

3. Describe and give examples of primary active transport.
4. Describe the steps in phagocytosis.
5. Pharyngeal phase of deglutition.
6. Functions of hemoglobin.

7. Gastric emptying.
8. A 35-year-old male presents with complaints of extreme tiredness, difficulty in concentration, giddiness, and reduced appetite. On examination, oral mucosa and nail beds are pale in color. Peripheral smear showed microcytic hypochromic anemia. What is the cause of this condition and classify anemia?
9. List the factors affecting venous return.
10. Tubular function tests.
11. Discuss the functions of the juxtaglomerular apparatus.
12. Mechanism of water reabsorption by the kidney and discuss loop diuretics.

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