

Q.P. CODE: M102A020**DR NTR UNIVERSITY OF HEALTH SCIENCES : VIJAYAWADA- 520008****MBBS DEGREE EXAMINATION: OCTOBER, 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.**

SECTION-II (THEORY QUESTIONS - 80 MARKS)**STRUCTURED ESSAY QUESTIONS:****2x15=30**

1. Define erythropoiesis. Discuss various stages and factors affecting erythropoiesis.
2. Define cardiac cycle. Discuss in detail about the pressure and volume changes in the cardiac cycle.

SHORT ANSWER QUESTIONS:**10x5=50**

3. Describe the factors in the genesis of resting membrane potential.
4. Small intestinal movements.
5. Functions of pancreatic juice.
6. Explain the defecation reflex.
7. Describe the respiratory changes at high altitudes.
8. A 70-year-old male came with complaints of breathlessness and fatigue on exertion for the past three months. On examination, he had pedal edema and high jugular venous pressure, BP was 90/70 mmHg and HR 110 beats/min. 9.

What is your probable diagnosis? Explain the pathophysiological basis of the signs and symptoms. (1+4)

9. Describe the composition and function of surfactants. (2+3)
10. Describe the neural regulation of respiration.
11. Describe the micturition reflex.
12. Describe the regulation of renal blood flow.

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