

**Q.P. CODE: M102A021****DR NTR UNIVERSITY OF HEALTH SCIENCES : VIJAYAWADA- 520008****MBBS DEGREE EXAMINATION: OCTOBER, 2024****FIRST M.B.B.S. EXAMINATION****PHYSIOLOGY PAPER-II****(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. What are the functional divisions of the cerebellum? Describe the functions of the cerebellum. List the features of cerebellar disorder.
2. Describe the hormonal, ovarian, and uterine changes during the menstrual cycle.

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

3. Describe the functions of the thalamus.
  4. Describe the features of slow-wave sleep.
  5. Describe the effects of lesions at various levels of the visual pathway.
  6. Functions of thyroxine.
  7. Functions of insulin.
  8. Following thyroid surgery, a 50-year-old woman developed a carpopedal spasm. The blood report showed hyperphosphatemia and significant hypocalcemia. What is your probable diagnosis? Mention two other features
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that can be elicited on examination of this patient. What will you administer to improve the condition of this patient?

9. Describe the changes following nerve injury.
10. Describe the steps of neuromuscular transmission.
11. Describe the length-tension relationship in skeletal muscle.
12. Describe the mechanisms of heat loss from the body.

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