

PHYSIOLOGY

PAPER – II

PHY/D/13/36/II

Time : 3 hours

Max. Marks : 100

Important instructions:

- Attempt all questions in order.
- Each question carries 10 marks.
- Read the question carefully and answer to the point neatly and legibly.
- Do not leave any blank pages between two answers.
- Indicate the question number correctly for the answer in the margin space.
- Answer all the parts of a single question together.
- Start the answer to a question on a fresh page or leave adequate space between two answers.
- Draw table/diagrams/flowcharts wherever appropriate.

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| 1. Discuss briefly about the types, causes and physiological basis of characteristic features of hyperaldosteronism. | 2+2+6 |
| 2. Draw flow diagram(s) to depict integrated response of various endocrine glands in stress adaptation. Compare and contrast the responses to a novel stressor with a known stressor. | 6+4 |
| 3. Discuss the post natal development of gastrointestinal functions. | 10 |
| 4. Compare and contrast the physical and physiological mechanisms underlying maintenance of core body temperature. Add a note on heat loss and heat gain mechanisms. | 5+5 |
| 5. What is normal intestinal bacterial flora? Describe its functional significance. | 3+7 |
| 6. Describe the structure and functions of placenta. Add a note on human chorionic somatomammotropin. | 5+5 |
| 7. Describe the mechanism of ejaculation and its neural regulation. Add a note on erectile dysfunctions. | 5+5 |
| 8. What are the functions of liver? How can they be assessed? | 4+6 |
| 9. Describe the biochemical structure and function of mucous secretion in stomach. Discuss the factors affecting it. | (3+4)+3 |
| 10. Define fertilization. Describe the sequence of events during fertilization in female genital tract. | 2+8 |
