PHYSIOLOGY
PAPER – II

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.

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

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POSSESSION / USE OF CELL PHONES OR ANY SUCH ELECTRONIC GADGETS IS NOT PERMITTED INSIDE THE EXAMINATION HALL.