

APRIL 2017

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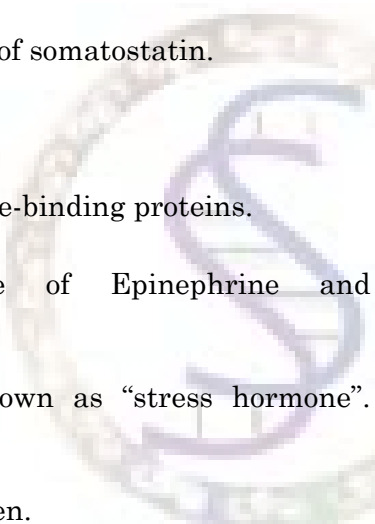
Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 1 = 10 marks)

Answer any TEN questions.

Each question carries 1 mark.

1. Give any two functions of Vasopressin.
 2. What is proopiomelanocortin family?
 3. Write a note on biological action of gastrin.
 4. Give the biological role of somatostatin.
 5. What is Calcitriol?
 6. Name any two thyroxine-binding proteins.
 7. Write the structure of Epinephrine and Non-Epinephrine.
 8. Which hormone is known as “stress hormone”. Why it is called so?
 9. Write the role of estrogen.
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10. What are the phases of menstrual cycle?
11. What are the functions of FSH?
12. How are the Hypothalamus and pituitary gland related?

SECTION B — (5 × 5 = 25 marks)

Answer any FIVE questions.

Each question carries 5 marks.

13. Explain in detail on classification of hormones.
14. Write a note on the biosynthesis of Insulin.
15. Write in detail on the metabolic action of Parathyroid hormone on bones.
16. Explain the action of aldosterone on Renal cells.
17. Note on the metabolic action of testosterone.
18. Explain briefly on biochemical changes occurs during pregnancy.
19. Write briefly on the metabolic action of calcitonin on bone and kidneys.

SECTION C — (4 × 10 = 40 marks)

Answer any FOUR questions.

Each question carries 10 marks.

20. Explain in detail on the regulation of hormone secretion.
21. Explain the role of glucagon in the regulation of glucose metabolism.
22. Write in detail on the metabolic action of thyroid hormones.
23. Write a note on the biosynthesis, storage and release of adrenal medullary hormones.
24. Explain the regulation of Glucocorticoids secretion in detail.
25. Write in detail about biosynthesis and metabolic action of progesterone.