

D. K. M. COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1
SEMESTER EXAMINATIONS
NOVEMBER - 2017

15CBC5E

ELECTIVE II : HORMONAL BIOCHEMISTRY

Time : 3 Hours

Max. Marks : 75

SECTION – A (10 x 2 = 20)

Answer ALL the questions.

1. Define hormone.
2. What are G - proteins?
3. What are the clinical features of Cretinism?
4. Give a note on Goiter.
5. What are the 3 P's of Diabetes mellitus?
6. What is the role of glucagon?
7. What is Cushing's syndrome?
8. Give the biological role of Catecholamines.
9. Give the structure and function of testosterone.
10. Write the functions of progesterone.

SECTION – B (5 x 5 = 25)

Answer any FIVE of the following questions.

11. Give the classification of hormones.
12. Write a note on the feedback regulation of hormone secretion.
13. Comment on Osteomalacia.
14. Explain the disorders of thyroid hormone.
15. Describe the structure and function of insulin.
16. Explain the biological role of adrenal cortical hormone.
17. Describe the characteristic features of Addison's disease.
18. Explain the chemical nature and functions of estrogens.

SECTION – C (3 x 10 = 30)

Answer ALL the questions.

19. (a) Describe the mechanism of signal transduction.
(Or)
(b) Discuss the role of secondary messenger in hormonal action with suitable examples.
20. (a) Explain the biosynthesis, transport and biological action of thyroid hormones.
(Or)
(b) Write about the metabolic complications of diabetes mellitus.
21. (a) Describe the main features and disorders of adrenal cortical hormones.
(Or)
(b) Explain the structure, chemical nature and functions of gonadal hormones.