D.K.M.COLLEGE FOR WOMEN (AUTONOMOUS), VELLORE-1.

III B.Sc Biochemistry

Semester : V

Tile of the paper: Hormonal Biochemistry

Subject Code : 15CBC5E

SECTION-A 2 MARKS

1. Define hormones.
2. Ca^{2+} and its role.
3. Give examples of secondary messengers
4. Examples of peptide hormone.
5. Rickets.
6. Osteomalacia.
7. Goiter.
8. Cretinism and myxedema
9. Grave's disease
10. Name the cell that synthesis insulin hormone.
11. Name the type of cell that synthesis glucagon hormone.
12. What is hyperglycemia.
13. What is meant by hypoglycemia.
14. Enumerate the disorder Diabetes Mellitus.
15. Write a brief note on hormone glucagon.
16. Explain about the biosynthesis of insulin.
17. Pheochromocytoma
18. Addison's disease
19. Cushing's syndrome
20. Mention the female hormone.
21. Mention the male hormone.

SECTION-B 5 MARKS

1. Give the classification of hormones.
2. Write a note on secondary messenger cAMP.
3. Write a short note on feed back mechanism.
4. Write about feedback mechanism.
5. Outline the role of cGMP in visual transduction.
6. Add a note on G protein.
7. Write a note on IP3 and its action**.**
8. Explain the biosynthesis of thyroid hormones.
9. Explain the biosynthesis of parathyroid hormone**.**
10. Add a note on biosynthesis of catecholamines.
11. Write a detailed account on biosynthesis of cortisol.
12. Give a detailed account on biosynthesis of aldosterone.

SECTION-C 10 MARKS

1. Give a brief note on mechanism of action of polypeptide hormones.
2. Describe the mechanism of action of steroid hormones with diagram.
3. Explain signal transduction.
4. Explain the biological actions of thyroid hormones.
5. Explain the biological actions of parathyroid hormone.
6. Describe the biological activity of insulin.
7. Describe the biological actions of cortical and its disorders.
8. Describe the biological role and disorders of aldosterone.
9. Give a short note on estrogens.
10. Discuss about testosterone and its role.
11. Describe the progesterone and its action.