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

SEMESTER EXAMINATIONS

APRIL - 2019

15CBC6A

NUTRITIONAL AND PLANT BIOCHEMISTRY

Time : 3 Hours

Max. Marks : 75

SECTION – A (10 x 2 = 20)

Answer ALL the questions.

1. What is a good balanced diet?
2. What is dietary fibre? Give its importance.
3. What are vitamins? How are they classified?
4. Mention the vitamin which is responsible for blood clotting?
5. What are trace elements? Give their importance.
6. What is the function of zinc in the body?
7. Draw a neat sketch on plant cell.
8. Differentiate plant cell with animal cell.
9. Define single cell protein.
10. What are bio fertilizers?

SECTION – B (5 x 5 = 25)

Answer any FIVE of the following questions.

11. Write short notes on methods for determining the calorific value of food.
12. Define Basal metabolic rate. List out the factors influences the BMR.
13. Write brief notes on deficiency defects of vitamin B₁₂.
14. Give an account on important sources of vitamin E and vitamin K.
15. What are the sources of iron? Give its biological functions.
16. Explain in detail about sources, biological functions and deficiency symptoms of phosphorus.
17. Explain in detail about the biosynthesis, biological functions and industrial importance of secondary metabolites in plant.
18. Write short notes on Bio pesticides.

SECTION – C (3 x 10 = 30)

Answer ALL the questions.

19. (a) Explain in detail about the daily nutritional requirement for children's, adults and elderly people.
(Or)
(b) Give a detail account on sources, physiological functions and deficiency symptoms of Ascorbic acid.
20. (a) List out the minerals essential during the course of pregnancy and in old age.
(Or)
(b) Describe in detail about the functions of phosphate and calcium.
21. (a) Discuss in detail about the plant disease and its defence mechanism.
(Or)
(b) Explain in detail about plant hormone Auxins, Gibberillin, Cytokinins, ABA and Ethylene.

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