

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

III B.Sc Biochemistry

Semester : VI

Title of the paper: Nutritional Plant Biochemistry

Subject Code : CBC6A

SECTION-A 2 Marks

1. Define nutrition.
2. Define nutrients.
3. What is mean by body weight?
4. What is mean by body composition?
5. Define BMR?
6. Define calorie.
7. Define respiratory quotient
8. What is meant by basal metabolism?
9. Define vitamins.
10. What are fat soluble vitamins?
11. What are water soluble vitamins?
12. What are the sources of vitamin A?
13. What is keratomalacia?
14. What is xerophthalmia?
15. What is calcitriol?
16. What is meant by rickets?
17. What is meant by osteomalacia?
18. What is meant by antisterility vitamins?
19. What are the sources of vitamin K?
20. Write any 2 functions of vitamin K?
21. What is scurvy?
22. What is beri-beri?
23. What is meant by glossitis?

24. Write the deficiency status of riboflavin?
25. What is meant by pellagra?
26. What is meant by 3-D's disease?
27. What are anti egg white vitamins?
28. Write the functions of folic acid?
29. What is meant by pernicious anaemia?
30. Define hypercalcemia?
31. Define hypo calcemia?
32. What is hyponatremia?
33. What is hypernatremia?
34. What are the functions of Zinc?
35. Define iron deficiency anaemia?
36. What is goiter?
37. What is meant by hypothyroidism?
38. What is meant by hyper thyroidism?
39. Define prophylaxis.
40. Define disease resistance.
41. What is meant by crop rotation?
42. Define Rogueing.
43. Define mixed cropping.
44. What is abscission layer?
45. What are the natural openings in plants?
46. Write any 2 functions of plasma membrane?
47. What are the functions of nucleus?
48. What is rough endoplasmic reticulum?
49. What are ribosomes?
50. What is aquaporin?
51. What is symplast?
52. What is apoplast?
53. What is SCP?
54. What is Aba?

55. What is gaseous hormone?
56. What is meant by leaf senescence?
57. What is meant by parthenocarpy?

SECTION-B 5 MARKS

1. Give an account on factors affecting BMR?
2. Write a note on respiratory quotient?
3. Write the functions on Vitamin A?
4. Write about the deficiency status of Vitamin A?
5. Explain Wald's visual cycle?
6. Explain the absorption and functions of vitamin D?
7. Justify vitamin D as a steroid hormone
8. Write a note on coenzymic functions of vitamin K?
9. What are the functions of vitamin B1 (pyroxidine)?
10. What are the functions of thiamine?
11. Write the deficiency status of vitamin B12?
12. What are the functions of calcium?
13. Write a note on mineral potassium?
14. Give an account on absorption and transport of iron.
15. Write a note on mineral iodine?
16. Explain about the mineral zinc.
17. Write a note on nucleus.
18. Write about vacuoles.
19. Give an account on endoplasmic reticulum.
20. Describe the structure and functions of chloroplast.
21. Explain the defence mechanism of plants based on structural aspects.
22. Describe the way of defence mechanism of plants based on biochemical mechanism.
23. Give a note on Bio fertilizers
24. Give an account on bio pesticides
25. Add a note on plant hormone cytokinin

26. Explain about the plant hormone abscisic acid.
27. Discuss photosynthetic respiration.

SECTION-C

10 Marks

1. Explain about the BMR apparatus and BMR measurement.
2. Explain about the factors affecting Basal Metabolic Rate.
3. Explain in detail about vitamin A
4. Explain the sources, chemistry, functions and deficiency status of vitamin D
5. Explain about the vitamin E
6. Discuss about the sources, chemistry and functions of vitamin K
7. Discuss in detail about the fat soluble vitamins.
8. Discuss in detail about the water soluble vitamins.
9. Elaborate about Vitamin C.
10. Explain in detail about the vitamin cyanocobalamin (B12)
11. Explain about the sources and functions of calcium and phosphorus.
12. Prepare nutritious diet sheet for childhood, adolescence and adulteration.
13. Elaborate the structure and functions of plant cells.
14. Illustrate the principles of plant disease control.
15. Illustrate the biosynthesis and biological functions of important secondary metabolites.
16. Explain the production of SCP.
17. Explain in detail about the hormone Auxin.
18. Explain about the hormone Gibberellin.
19. Explain about the hormone ethylene and abscisic acid.