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TM241124Z

Reg. No :

Name :

MASTER'S DEGREE (C.S.S) EXAMINATION, NOVEMBER 2024

2024 ADMISSIONS REGULAR

M.VOC FPT SEMESTER I - SKILL

VFPT1S01TM20 - Food Chemistry and Nutrition

Time : 3 Hours

Maximum Weight : 30

Part A

I. Answer any Eight questions. Each question carries 1 weight

(8x1=8)

1. State the WLF equation
2. Describe hydrophobic interactions in water.
3. Define carbohydrates and classify carbohydrates based on the number of carbon atoms.
4. Recall dextrinization.
5. Write a short note on reaction of monosaccharide with alkali and acids.
6. Identify the various functions of protein.
7. Recall on enzyme specificity.
8. Recall on Rancidity.
9. Describe Monascus pigment
10. Identify the deficiency disorders associated with vitamin A.

Part B

II. Answer any Six questions. Each question carries 2 weight

(6x2=12)

11. Explain the structure of water and its properties
12. Write a note on non-covalent interactions
13. Explain glycogenolysis.
14. Illustrate the synthesis of glycogen.
15. Describe the mechanism of enzyme action
16. Write a note on chemical properties of lipids.
17. Give a note on the following pigments (a) Anthocyanin (b) Carotenoid
18. Write a note on folic acid and their importance.

Part C

III. Answer any Two questions. Each question carries 5 weight

(2x5=10)

19. Describe glycolysis and its energetics.
20. Write an account on enzyme classification
21. Discuss in detail about synthesis and degradation of fatty acids.
22. Write a note on a) Vitamin A b) Vitamin D c) Vitamin K d) Vitamin C