

TM243955T

Feb

Reg. No :

Name :

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

2022 ADMISSIONS SUPPLEMENTARY

SEMESTER III - Food Science And Nutrition

FN3C10TM20 - Nutritional Biochemistry

Time : 3 Hours

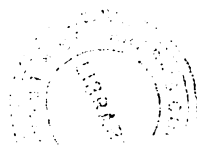
Maximum Weight : 30

Part A

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

(8x1=8)

1. Why doesn't sucrose answer osazone test?
2. What is optical isomerism?
3. Brief on regulation of cholesterol biosynthesis.
4. Outline ketoacidosis.
5. What is quaternary structure of proteins.
6. Brief on MSUD.
7. Brief on etiology of Gout.
8. Outline properties of DNA.
9. Enlist major antioxidants.
10. Brief on role of NAD as a coenzyme.



Part B

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

(6x2=12)

11. Describe the pathway of gluconeogenesis.
12. Outline metabolism of ketone bodies.
13. Give an account of Phenylketonuria.
14. Explain any two inborn errors of protein metabolism.
15. Give an account of types of DNA mutation.
16. Give an account of disorder of nucleic acid metabolism.
17. Describe types of free radicals and its effects.
18. Give an account of physiological mechanisms to prevent free radical damage.

Part C

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

(2x5=10)

19. Give an account of Glycogen metabolism. Add a note on its regulation.
20. Outline Beta oxidation of fatty acids. Add a note on its energetics also.
21. Explain in detail structure of proteins .
22. Explain in detail the composition and structure of DNA.