

O/c 4/10

TM243568M

Reg. No :

Name :

MASTER'S DEGREE (C.S.S) EXAMINATION, NOVEMBER 2024
2020, 2021, 2022 ADMISSIONS SUPPLEMENTARY
SEMESTER III - CORE COURSE 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. Explain principle of Benedict's test.
2. Depict anomers of glucose.
3. What is FAS complex?
4. Outline MUFA and PUFA with examples.
5. Brief on MSUD.
6. What is transdeamination?
7. What are the types of RNA?
8. What is Chargaff's rule?
9. Enumerate major organs which regulate metabolism.
10. Explain role of Pyridoxine 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 structure of proteins.
14. Give an account of Tyrosinemia.
15. Give an account of disorder of nucleic acid metabolism.
16. Explain composition and types of RNA.
17. Which are the major organs involved in regulation of metabolism?
18. Explain how blood sugar levels are maintained in the body.

Part C

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

(2x5=10)

19. Give an account of Glycolytic pathway. Add a note on its energetics and regulatory enzymes.
20. Outline Beta oxidation of fatty acids. Add a note on its energetics also.
21. Write an essay on Urea cycle and its significance.
22. Describe the process of DNA replication.