TM243511Z

Reg. No :.....

Name :.....

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

2020, 2021, 2022 ADMISSIONS SUPPLEMENTARY

SEMESTER III - CORE COURSE Clinical Nutrition And Dietetics

ND3C11TM20 - Clinical Biochemistry

Time : 3 Hours **Maximum Weight : 30**

Part A

I. Answer any Eight questions. Each question carries 1 weight **(8x1=8)**

1. Write on the metabolic adaptations taking place in liver.
2. Write a note on fat metabolic alterations during diabetes mellitus.
3. Discuss fatty liver.
4. Briefly explain the functions of different types of prostaglandins.
5. Write different types of Apo A proteins.
6. How are free radicals produced in the body?
7. Differentiate between α and β types of thalassemias.
8. Discuss on Gaucher's disease.
9. Describe Tyrosinosis.
10. Explain the relevance of glomerular filtration rate.

Part B

II. Answer any Six questions. Each question carries 2 weight **(6x2=12)**

11. Discuss the metabolic alterations in brain.
12. Describe secretory mechanism and different signal pathways of insulin action.
13. Describe the term fatty liver and write the role of lipotrophic factors in this condition.
14. Explain VLDL synthesis, degradation and its components.
15. Define antioxidants. Explain the role of various nutrients as antioxidants.
16. Write a note on various nutritional anaemias.
17. Discuss galactosemia.
18. Explain various types of thyroid function tests.

Part C

III. Answer any Two questions. Each question carries 5 weight **(2x5=10)**

19. Discuss WHO criteria to detect metabolic syndrome. Explain insulin synthesis.
20. Define the types of prostaglandins. How are various steroid hormones synthesized in our body?
21. Explain nutritional anaemia. Give details about the antioxidant properties of various food sources.
22. Explain various types of cardiac function tests.