

TM244642C

Reg. No :

Name :

MASTER'S DEGREE (C.S.S) EXAMINATION, MARCH 2024
2020, 2021 ADMISSIONS SUPPLEMENTARY
M. Sc. Food Science And Nutrition SEMESTER IV - ELECTIVE COURSE
FN4E03TM20 - Biophysical Techniques

Time : 3 Hours

Maximum Weight : 30

Part A

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

(8x1=8)

1. Write a note on Thin Layer Chromatography(TLC).
2. Write a note on partition chromatography.
3. Outline applications of electrophoresis.
4. Briefly outline the procedure for starch gel electrophoresis.
5. List the different classes of enzymes.
6. Comment on role of oxidoreductases in the human body.
7. Explain the term Absorption spectrum.
8. What are the components of a colorimeter?
9. Explain C 13 breath test.
10. Write a short note on Urea Breath test.

Part B

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

(6x2=12)

11. Elucidate the technique of column chromatography.
12. Elaborate the procedure of Thin Layer Chromatography (TLC).
13. Explain the principle and application of immuno electrophoresis.
14. Discuss the classification of enzymes.
15. What are Co enzymes? Discuss their role in enzyme catalysis.
16. Discuss the principle and applications of Atomic Absorption Spectrophotometer.
17. Differentiate light microscope and electron microscope.
18. Explain microbiological assay of vitamin B12.



Part C

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

(2x5=10)

19. Elaborate on the principle and applications of Gas Chromatography.
20. Explain the principle and application of SDS-PAGE.
21. Elaborate on different types of ELISA.
22. Explain the principle, instrumentation and application of Atomic Absorption Spectroscopy.