### 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

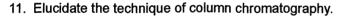
## I. Answer any Eight questions. Each question carries 1 weight.

(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



- 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.

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(6x2=12)