SRI DEVARAJ URS ACADEMY OF HIGHER EDUCATION AND RESEARCH
(A DEEMED TO BE UNIVERSITY)

Integrated B.Sc.-M.Sc. Clinical Nutrition and Dietetics (CND)
Fourth Year, Semester-VIII September 2024 Examination

Time- 2 Hrs   [Max Marks: 50]

METHODS OF INVESTIGATION
QP Code: N8250

Your answer should be specific to the question asked
Draw neat labeled diagrams wherever necessary

LONG ESSAY   2x6= 12 Marks

1. Explain the Working procedure of Atomic absorption spectrometry

2. Define HPLC. Explain the components of HPLC

SHORT ESSAY   6x4=24 Marks

3. Explain Arrhenius theory of electrolyte dissociation

4. Explain the Advantages and Disadvantages of flame photometer

5. Explain the uses of radiotracers in Medicine

6. Write a brief note on Flame Ionization Detector

7. Describe the various applications of ELISA

8. Explain the applications of Bioassays

SHORT ANSWER   7x2=14 Marks

9. Mention the role of APS in SDS-PAGE

10. Differentiate between ascending and descending chromatogram

11. Differentiate between isocratic and gradient chromatogram

12. Mention the applications of measurement of pH

13. Mention the uses of Carbon-14 Radioisotopes

14. Mention the principle of double beam spectrophotometer

15. Define Photometry

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Time: 2 Hrs   **Max Marks: 50**

SENSORY EVALUATION
QP Code: N8290

Your answers should be specific to the question asked
Draw neat labelled diagrams wherever necessary

LONG ESSAY   **2×6=12 Marks**

1. Elaborate on the descriptive analysis techniques

2. Explain in detail the Type I and Type II error and how to avoid them in a sensory test.

SHORT ESSAY   **6×4=24 Marks**

3. Discuss the uses of sensory evaluation

4. Write a short note on sensory nerves

5. Discuss about product mapping

6. Discuss the methods of designing a scorecard

7. Write about the different types of consumer tests

8. Explain the use of ANOVA in descriptive analysis

SHORT ANSWER   **7×2=14 Marks**

9. List a few Mechanoreceptors of somatosensation

10. Threshold test

11. Pillars of test design

12. Food taints

13. Shelf life studies

14. Principle Component analysis

15. Free choice profiling

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