



**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 October 2025 Examination

Time- 3 Hrs

[Max Marks: 100]

METHODS OF INVESTIGATION

QP Code: N8580

Your answer should be specific to the question asked

Draw neat labeled diagrams wherever necessary

LONG ESSAY

2x20= 40 Marks

1. Define Fluorimetry. Explain the Principle, working procedure and Applications of Fluorimetry 2+6+6+6
2. Define electrophoresis. Describe the principle and important types of electrophoretic methods 2+9+9

SHORT ESSAY

6x10=60 Marks

3. Define flame photometer. Discuss the principles of flame photometer
4. Explain the uses and working procedure of Atomic absorption spectrometry
5. Explain the types, parts and working procedure of spectrophotometer
6. Illustrate the Applications of radioisotope in Agricultural research
7. Describe the types and functions of stable isotopes
8. Define Chromatography. Explain the Advantages and Disadvantages of paper Chromatography

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Fourth Year, Semester-VIII, October-2025 Examination.

Time: 3 Hrs.

Max Marks: 100 Marks

SENSORY EVALUATION

QP Code: N8590

Your answers should be specific to the question asked

Draw neat labelled diagrams wherever necessary

LONG ESSAY

2×20=40 Marks

1. a) Define sensory analysis.
- b) Mention two main objectives of sensory evaluation.
- c) Explain the quantitative difference tests: magnitude estimation method.
- d) Describe the advantages and disadvantages of magnitude estimation.

$(2.5 + 2.5 + 8 + 7 = 20 \text{ Marks})$

2. a) Define acceptance tests.

- b) List three types of acceptance tests.

- c) Explain the monadic test in detail.

- d) Compare paired and sequential monadic tests. $(2.5 + 2.5 + 8 + 7 = 20 \text{ Marks})$

SHORT ESSAY

6×10=60 Marks

3. Write the importance of neural pathways in sensory perception.
4. Explain the general testing conditions – environmental and psychological factors.
5. Describe the discrimination test – paired comparison method.
6. Illustrate the descriptive tests – rating for sensory profile and free choice profiling.
7. Explain the designing a questionnaire for sensory evaluation.
8. Explain the statistical applications in sensory data analysis.