



**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 2023 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. Define spectrophotometer. Explain the Working procedure of spectrophotometer
2. Define indicators. Explain the four types neutralization reactions

**SHORT ESSAY**

**6x4=24 Marks**

3. Describe the various types of ELISA
4. Define NMR. Explain the applications of NMR
5. Explain the applications of Bioassays
6. Describe the importance of Microbiological Assays
7. Discuss the Buffer Action Mechanism
8. Write a brief note on paper electrophoresis

**SHORT ANSWER**

**7x2=14 Marks**

9. Name the basic requirements of reference electrode and mention its types
10. Define Rf Value
11. What is an indicator? Give an examples
12. What is Ostwald's theory
13. List the parts of spectrophotometer
14. Define Isotopes
15. What is C-18 column in chromatogram

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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. Explain the types of sensory tests
2. Discuss the objectives of conducting consumer studies

**SHORT ESSAY**

**6×4=24 Marks**

3. Given details the type of difference test and discuss hedonic rating scale
4. Write the basic steps involved in performing sensory analysis.
5. Discuss the vision system
6. Discuss shelf life studies
7. Discuss about product matching
8. Discuss the types of errors which occur during sensory evaluation

**SHORT ANSWER**

**7×2=14 Marks**

9. Texture profile analysis
10. List the different types of rating scales
11. Free choice profiling
12. Central Location tests
13. Draw the structure of eye and name its parts
14. Define Sensory Evaluation
15. Principal component analysis

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