

M.SC. (INDUSTRIAL SAFETY)

(MSCIDS)

Term-End Examination

June, 2026

MIS-034 : RESEARCH METHODOLOGY

Time : 3 Hours

Maximum Marks : 70

Note : (i) Attempt any **seven** questions.

(ii) All questions carry equal marks.

1. What is 'Correspondence Analysis' ? Discuss the steps involved in correspondence analysis. 10
2. What is composite index ? How is composite index useful for analysis of data ? 10
3. Using suitable example, explain the 'purposive sampling' method of data collection. 10

4. Explain the significance of the assumptions of normal distribution in linear regression model. How regression model is useful for data analysis ? 10
5. Explain the concept of cluster analysis. Describe in brief the steps involved in conducting cluster analysis. 10
6. Discuss the advantages and disadvantages of structural equation modeling. In what situation, you would like to use structural equation modeling for data analysis ? 10
7. State the uses of content analysis. Describe the advantages and disadvantage of content analysis. 10
8. What are the characteristics of action research ? Discuss its advantages and disadvantages. 10
9. Discuss various steps involved in formulation of project proposal. 10

[3]

10. Write short notes on any *four* of the following : $4 \times 2\frac{1}{2} = 10$

- (a) Copy right
- (b) Data tabulation
- (c) Quantitative research
- (d) Citation
- (e) Errors in measurement
- (f) Random sampling

× × × × ×