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MIS-034

**M. SC. (INDUSTRIAL SAFETY)
(MSCIDS)**

Term-End Examination

December, 2025

MIS-034 : RESEARCH METHODOLOGY

Time : 3 Hours

Maximum Marks : 70

Note : Answer any **seven** questions. All questions carry equal marks.

1. What is mixed method of research ?
Explain and illustrate the rationale for the use of mixed methods. 10
2. Discuss the various steps involved in formulation of a research proposal with illustrations. 10
3. What is action research ? Discuss the advantages and disadvantages of action research with suitable examples. 10

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4. What is canonical correlation analysis ?
How is canonical correlation analysis
distinct from simple correlation ? 10
5. Explain the concept of measurement.
Describe briefly different types of scales of
measurement. 10
6. What is the distinction between cross-
section data and time series data ? Discuss
in brief the various methods of data
collection. 10
7. What is regression ? Explain the basic
assumption of classical linear regression
model. How does regression analysis help a
research in data analysis ? 10
8. Explain the concept of composite index.
What are different methods for
construction of composite index ? Explain
any *one* method. 10
9. What is the difference between a project
report and a thesis ? Describe in brief
various steps involved in formulation of the
project proposal. 10

[3]

10. Write short notes on any *four* of the following : 4×2.5=10

- (a) Stratified random sampling
- (b) Plagiarism
- (c) Correlation
- (d) Qualitative research
- (e) Chi-square distribution
- (f) Factor analysis

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