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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*

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

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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

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

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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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