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# MIS–035

## MASTER OF SCIENCE IN INDUSTRIAL SAFETY (MSCIDS)

## Term-End Examination

## June, 2026

### MIS-035 : SAFETY IN VARIOUS INDUSTRIAL SECTORS

*Time : 3 Hours* *Maximum Marks : 70*

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

*(ii) All questions carry equal marks.*

1. (a) How the risk assessment tools identify the hazards in mechanical industry ? Explain. 5

   (b) What type of accidents occur in mechanical industry ? How do you prevent them ? 5

2. (a) List out various safety equipments in Automobile. Explain the function of Air bag. 5

   (b) How the rear vehicle object detection system function at the time of reversing the vehicle ? Explain. 5

3. (a) Explain the classification of hazardous wastes and various treatment methods employed to treat and dispose them in chemical industry. 5

   (b) Describe the dangers of high temperature operations, their causes and control measures in chemical and petroleum industries. 5

4. (a) Discuss the steps in developing a fire safety plan for chemical and petroleum industries. 5

   (b) Discuss in detail the accident investigation steps in chemical and petroleum industries. 5

5. (a) What are the safety hazards expected in the carding section of the spinning mill and what precautions are to be taken to prevent them ? 5

   (b) What are the various processes of man-made fibre industries ? 5

6. (a) What hazards are expected while operating shuttle looms and what precautions are to be taken to prevent them ? 5

   (b) Explain in detail about different types of desizing in wet processing industry. 5

7. (a) Discuss the safety risks in the pharmaceutical industry and how they can be managed ? 5

   (b) What do the four circles within the biohazard symbol represent ? 5

8. (a) What role does risk assessment play in determining the appropriate bio-safety level for handling a pathogen ? 5

(b) Discuss the operational guidelines for working with Biological Safety Cabinets (BSC). 5

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

(a) Acceleration sensors

(b) Active and Passive safety systems

(c) Electrical Hazards

(d) Metal Detector

(e) Dyeing

(f) Food operation and control

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