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MIS-035

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

Term-End Examination

December, 2025

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

Time : 3 Hours

Maximum Marks : 70

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

1. (a) How do you indentify the risk in the mechanical industry ? What are the various techniques for the identification of risk in mechanical industries ? 5
- (b) What do you understand by safety in mechanical industry ? What are the key components of mechanical safety ? 5

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2. (a) What are the safety systems in an Automobile ? Explain briefly. 5
- (b) Explain the construction and working of air bag with a suitable sketch. 5
3. (a) Discuss various precautions to be taken and procedures to be followed for storing hazardous materials in chemical industry. 5
- (b) Explain various causes of reactive hazards in chemical and petroleum industries and state the control measures to be taken to manage them. 5
4. (a) List out the applications, advantages and disadvantages of water, chemical, foam and gas based fire suppression systems. 5
- (b) Discuss the strategies for preventing accidents in chemical and petroleum industries. 5

5. (a) Discuss in detail the safety measures to be taken at raw material godown of a spinning mill. 5
- (b) Classify and discuss about various methods of man-made fibre production. 5
6. (a) Mention the general safety measures to be taken at the fabric manufacturing factory. 5
- (b) What are the various chemical hazards observed in wet processing industry ? Discuss. 5
7. (a) What measure does reduce the contamination risks from food contact surfaces ? Explain. 5
- (b) What is the most effective method for reducing the risk of infection from blood-borne pathogens in healthcare setting ? 5

8. (a) Describe the procedures involved in handling an accidental exposure to a Bio Safety Level (BSL)-3 pathogen. 5
- (b) Explain different methods of sterilization used in laboratories and their applications. 5
9. Write short notes on any *four* of the following : $4 \times 2.5 = 10$
- (a) Safety Management Systems (SMS)
- (b) Material Safety Data Sheet (MSDS)
- (c) Smoke Detector
- (d) Carding Process
- (e) Applications of Fluorocarbon Coatings
- (f) Bio-Safety Levels

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