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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

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 : 4×2.5=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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