

**MASTER OF SCIENCE
(INDUSTRIAL SAFETY)
(MSCIDS)**

Term-End Examination

December, 2025

**MIS-036 : EMERGENCY RESPONSE PLANNING
AND MANAGEMENT OF DISASTERS**

Time : 3 Hours

Maximum Marks : 70

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

1. (a) What are the different phases of emergency management ? Explain briefly. 5
- (b) How do you identify the critical control points in risk management ? Explain briefly. 5

2. (a) Describe the resource assessment and planning in Emergency Response Plan (ERP). 5
- (b) Define Incident Command System (ICS). List out the various benefits of Incident Command System (ICS). 5
3. (a) Explain the emergency alerts and notification systems in emergency communication systems. 5
- (b) What is the purpose of establishing emergency operations centre ? Explain briefly. 5
4. (a) What are the key components of an evacuation plan ? Explain briefly. 5
- (b) Explain about the ambulance services and response time in Emergency Medical Services (EMS). 5
5. (a) What are the various manual rescue tools and equipment used in Search and Rescue (SAR) operations ? Explain briefly. 5

- (b) What is Psychological First Aid (PFA) ? Why is it required in emergency response planning ? 5
6. (a) What are the various types of emergency reports ? Explain briefly. 5
- (b) What are the factors involved in monitoring progress ? Explain briefly. 5
7. (a) What are the key roles and responsibilities of trained volunteers and health workers during disaster ? 5
- (b) Describe the importance of maintenance of safety equipment. 5
8. (a) How does the logistics and transportation play an important role in during disaster ? 5
- (b) What are the various types of Search and Rescue (SAR) operations ? Explain any *one* type in brief. 5

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

- (a) Industry 4.0 and its impact on safety
- (b) SCADA systems in safety
- (c) Mass Casualty Incident (MCI) Management
- (d) Drones in Search and Rescue Operations
- (e) Waste Disposal Mechanisms
- (f) National Disaster Framework

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