

**POST GRADUATE DIPLOMA IN
MANAGEMENT IN INDUSTRIAL SAFETY,
HEALTH & ENVIRONMENT PGDM (ISHE)**

Term-End Examination

June, 2012

MIS-007 : SAFETY ENGINEERING

Time : 3 hours

Maximum Marks : 70

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- Note :** (i) *Question no. 1 and 2 are compulsory.*
(ii) *Also attempt any three question from the rest.*
(iii) *All questions carry equal marks.*
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1. Define *any four* of the following : **4x3½=14**
- (a) Fatigue
 - (b) Smoke detector
 - (c) Safety in Design
 - (d) Lifting Tackler
 - (e) Accident
2. Write short notes on *any four* of the following : **4x3½=14**
- (a) Safety of materials and equipments
 - (b) Use of personnel protective equipment.
 - (c) Evolution of the concept of industrial safety
 - (d) Safe working load and its importance in safety
 - (e) Role of occupier

3. "Safety is hardly a procedure or a programme. It is a way of life, a state of mind, a force of habit and it must be part of each individual, in every activity, at all times and every where" - Justify the statement with suitable examples. 14
4. (a) Explain the theory of mechanical operations in material handling. 7+7
(b) Describe in brief the 7B of Factory Act in relation to Safety engineering.
5. What is Safety Training and why is it necessary ? Discuss the attributes, a trainer of safety should possess. 14
6. Why do accidents occur in industries ? Suggest the measures to prevent industrial accidents and to provide safety to employees. 14
7. What is the principle of ergonomics and explain interface design ? 14
8. Describe how robot can cause hazards to workers ? Discuss precautions to be observed by workers while lifting loads. 14
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