

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

00487

Term-End Examination

December, 2010

MIS - 007 : SAFETY ENGINEERING

Time : 3 hours

Maximum Marks : 70

Note : (i) Attempt five questions. Question no. 1 and 2 are compulsory.

(ii) All questions carry equal marks.

1. Write short notes on *any four* of the following :
(a) General awareness of ergonomics. $4 \times 3\frac{1}{2} = 14$
(b) Safe working load and its importance in safety.
(c) Role of occupier.
(d) Safety features in cranes.
(e) Safety in casting and foundry practices .

2. Define *any four* of the following : $4 \times 3\frac{1}{2} = 14$
(a) Lifting tackles
(b) Accident
(c) Safety organisation
(d) Safety in electrical handling
(e) Safety in shot penning

3. (a) Explain the various safety engineering parameters for the following section :
Product liability and process liability. 2x7=14
(b) Describe the importance of safety in design of equipment.

 4. Write in detail the importance of personal protection equipment at construction site. Give example of specific use. 14

 5. Describe the safety parameters to be observed in lifting machines and lifting appliances. 14

 6. Describe the parameters to be observed in inspection of Personal Protective Equipment (PPE). Explain the importance of quality management of PPE. 14

 7. Explain the major causes for fire out breaks in a power utility. What techniques can be used for handling and preventing such fires? 14

 8. "Safety alone is not the objective of safety Engineering. Health of worker should also be included in the objective" - Justify the statement. 14
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