

**POST GRADUATE DIPLOMA IN
INDUSTRIAL SAFETY, HEALTH AND
ENVIRONMENT MANAGEMENT
(PGDISHEM)**

**Term-End Examination
June, 2010**

MIS-003 : MACHINES & MACHINE GUARDS

Time : 3 hours

Maximum Marks : 70

Note : (i) Attempt five questions. Q. No. 5 and 8 are compulsory.

(ii) All questions carry equal marks.

1. What are the types of machine guards ? Explain 14
each guard and its protective system in detail.
2. Explain the general principles of machine guards 14
for reducing the risk of injuries from work
involving machineries.
3. Write the importance of safety in power presses 14
with brief summary of power press regulations.
4. Write the employer's responsibilities in using 14
machinery with the provisions and use of work
equipment.

5. Define *any four* of the following : **4x3.5=14**
- (a) Material handling
 - (b) Dangerous parts
 - (c) Machine guards
 - (d) Interlocking guards
 - (e) Abrasive wheels
6. Explain earth moving safety and write down the responsibilities in earth moving operations. **14**
7. Write the core information with respect to worker's injury at machine, the type of hazards in mechanical operations. **14**
8. Write short note on *any four* of the following : **4x3.5=14**
- (a) Fencing of Machines
 - (b) Accident on unguarded machines
 - (c) Lifting Machines
 - (d) Fly wheel and speed limit
 - (e) Safe Working Practice
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