

00450

**POST GRADUATE DIPLOMA IN FIRE SAFETY
AND DISASTER MANAGEMENT
(PGDFSTYDM)**

Term-End Examination

June, 2013

MSE-011 : INDUSTRIAL SAFETY

Time : 3 hours

Maximum Marks : 100

Note : *Answer all in Section-A 20 marks.*
 Answer any 5 in Section-B, each carry 8 marks.
 Answer any 2 in Section-C, each carry 20 marks.

SECTION-A

Answer *all*

10x2=20

1. (a) Define Safety.
(b) What is Risk ?
(c) What is hazard ?
(d) What is the definition of MSDS ?
(e) S.W.L. Stands for what ? (in material handling)
(f) Write the formula of frequency rate and severity rate.
(g) What is the definition of Ergonomics ?
(h) Define risk.

- (i) What is the B.I.S. Standard No. of :
- (i) safety helmet,
 - (ii) safety belt
 - (iii) CO₂ Exstinguisher
- (j) What is the definition of P.T.W ?

SECTION-B

Answer *any* 5

5x8=40

2. (a) Write a note on Safety Organization.
- (b) What are the safety aspects required for Industries ?
- (c) How many types of accident are occurred ? Describe the name and condition.
- (d) What do you mean by Unsafe act ? Explain it.
- (e) Explain about Henrich's and Bird's theory and give the differences.
- (f) How many types of permit system are there ? Write any one of them.
- (g) Describe the Risk Magnitude with its four stages.

SECTION-C

Answer *any two*

2x20=40

3. What safety aspects should required for chemical process industries ?
 4. In 'Safety Development Programme' what is the role of Education and Training ?
 5. Write a note on occupational health and safety.
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