

**B.Tech. MECHANICAL ENGINEERING
(COMPUTER INTEGRATED
MANUFACTURING)**

00815

Term-End Examination

December, 2014

BME-030 : SAFETY ENGINEERING

Time : 3 hours

Maximum Marks : 70

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

1. (a) Draw a safety organisation chart for a large company. Explain its importance.
(b) What is occupational safety ? Describe the reasons for risks to the safety and health of a worker in workplace. 7+7
2. (a) Which conditions cause hearing loss and what precautions are suggested to avoid hearing loss ? Explain.
(b) What is an accident ? What are the different injuries arising from accidents ? 7+7
3. (a) What is meant by environmental pollution ? Describe the pollutants of air. Also explain greenhouse effect.
(b) What are the safety audit functions ? What are the guidelines to plan an audit of safety in an industry ? 7+7

4. (a) What is ISO 14000 series ? Describe its components.
- (b) What are the documents included in ISO 14000 ? Explain. 7+7
5. (a) Define waste. Describe the different types of wastes with examples.
- (b) What is land filling ? Describe the different types of land fills. 7+7
6. (a) What is recycling ? How is the performance of a recycling process judged ?
- (b) Describe the process of aluminium recycling. Also explain the benefits obtained from this process. 7+7
7. (a) What is safety training and why is it necessary ? Discuss the methods of detailed safety training.
- (b) What are safety inspections ? Discuss the objectives and roles of safety inspectors. 7+7
8. (a) Discuss the role of Government, management and society in keeping safety environment in industry.
- (b) What safety measures should be taken during the welding work ? 7+7
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