

**B.Tech. MECHANICAL ENGINEERING  
(BTMEVI)**

**Term-End Examination**

**June, 2013**

**BIMEE-014 : SAFETY ENGINEERING**

*Time : 3 hours*

*Maximum Marks : 70*

*Note : Answer any five questions. Each question carries equal marks.*

1. (a) What is the need of industrial safety ? 7  
Explain the steps of industrial training for safety against electrical and fire hazards.
- (b) What are the precautions taken for safety 7  
in the workshop and laboratories of schools and colleges ?
2. (a) What chemical hazard risks do you foresee 7  
in industries involved in welding and foundry activities ?
- (b) Explain the procedure of safe handling of 7  
inflammable chemicals in industry.
3. (a) What precautions would you prescribe for 7  
work environment which contains risks of chemical hazards ?
- (b) Prescribe the procedure for handling and 7  
storage of compressed explosive gas cylinders.

4. (a) Classify fire fighting equipments which are used in industry. 7
- (b) What steps are taken for welding of pressure vessels and boilers in industrial site ? Explain in detail. 7
5. (a) What practices are followed in the hazardous waste disposals in Health Centres ? 7
- (b) Explain the criteria and routine schedule followed in the maintenance of personnel protection equipments. 7
6. (a) Explain the provisions for safe working practices used in construction industries. 7
- (b) What are the factors required for the safe working environment ? Explain in detail. 7
7. (a) What role does factory inspectorate play in day to day working of industries ? 7
- (b) Explain the elements of the safety organisation. 7
-