

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

**Term-End Examination**

00576

**June, 2015**

**BIMEE-014 : SAFETY ENGINEERING**

*Time : 3 hours*

*Maximum Marks : 70*

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

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1. (a) What is the role of first aid in dealing with emergency ? Describe the contents of a first aid kit. What are the different elements of emergency planning ? 7
- (b) Bring out the distinguishing features of the following :
  - (i) Domestic solid waste
  - (ii) Municipal solid waste
  - (iii) Industrial solid wasteWhat health hazards are associated with these wastes ? 7
2. (a) What is Noise Induced Hearing Loss (NIHL) ? What type of sound causes NIHL ? 7
- (b) Give the details of the factors causing physical hazards in industry and explain their mode of prevention. 7

3. (a) "Safety alone is not the objective of safety engineering. Health of the workers should also be included in the objective." Justify the statement. 7
- (b) What are the roles of protective equipment and clothing to avoid hazards in the work-place? 7
4. (a) What type of training do you recommend for the treatment of any victim suffering from severe electric shock? 7
- (b) What safety measures should be observed during welding work in industries? 7
5. (a) Many jobs will be available in the next few years in the field of hazardous waste monitoring and disposal. Would you take such a job? If not, why? If so, do you feel secure that your health would not be jeopardized? Justify your answer with suitable examples. 7
- (b) Describe briefly the impact of industrial effluents and highlight the industry-specific treatment schemes. 7
6. (a) What is the greenhouse effect? What is its importance to global climate? 7
- (b) What purposes are served by the legislative Acts in respect of occupational health and safety? 7
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