

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

00476

**Term-End Examination  
June, 2016**

**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) "Safety is not only the objective of safety engineering, health of workers should also be included in the objectives." Justify the statement.  
(b) Discuss the health problems arising out of industrialisation and the measures for the health protection of workers. 7+7
2. (a) What is occupational stress ? What are the causes and impact of stress at the work-place ?  
(b) Describe the pollutants of water and how they enter into the water. 7+7
3. (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 ?  
(b) What is Noise Induced Hearing Loss (NIHL) ? What type of sound causes NIHL ? 7+7

4. (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.
- (b) What is recycling ? What are the preparations to be made for recycling a waste ? 7+7
5. (a) What is meant by workers' participation in framing safety rules ? What are the advantages ?
- (b) What is safety training and why is it necessary ? Discuss the safety training methods. 7+7
6. (a) Besides passing legislations, what role does the government play in respect of safety conditions in industry ?
- (b) Make a list of diseases which are likely to be caused by working in industry. What are the conditions that are found in the work-place that can control the occupational health ? 7+7
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