

**B. TECH.-VIEP-MECHANICAL  
ENGINEERING (BTMEVI)  
Term-End Examination**

**June, 2019**

**BIMEE-014 : SAFETY ENGINEERING**

*Time : 3 Hours*

*Maximum Marks : 70*

---

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

---

---

1. (a) What is the need of safety training and education in educational institutions ? 7  
(b) What is the role of first aid in dealing with emergency ? Describe the contents of a first aid kit. 7
2. (a) What is occupational stress ? What are the causes and impact of stress at the work-place ? 7  
(b) Discuss the details of the factors causing physical hazards in industry and explain their mode of prevention. 7
3. (a) What are the steps taken for welding of pressure vessels and boilers in industrial site ? Explain in detail. 7

- (b) What practices are followed in the hazardous waste disposals in health centres ? 7
4. (a) Describe the pollutants of water and how they enter into water ? 7
- (b) Explain the provisions for safe working practices used in construction industries. 7
5. (a) Describe the safety in lifting machines by using various material handling equipments. 7
- (b) What is recycling ? What are the preparations to be made for recycling a waste ? 7
6. (a) What are the pollutants coming from the vehicle emissions ? How can it be controlled ? 7
- (b) What are the roles of a factory inspector in the day-to-day working of industries ? 7
7. Write short notes on any *four* of the following :  
4×3.5=14
- (a) Noise induced hearing loss

[3]

- (b) Green house effect
- (c) ISO 14000
- (d) Legal aspects of industrial safety
- (e) Safety audit
- (f) Methods of fire detection