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BIMEE-014

00631

## B.Tech. MECHANICAL ENGINEERING (BTMEVI)

## **Term-End Examination**

## December, 2013

## **BIMEE-014 : SAFETY ENGINEERING**

Time	:	3	hours

Maximum Marks: 70

- *Note* : Attempt any five questions. Each question carries equal marks.
- (a) What is the need of safety training and 7 education in educational institutions ?
  - (b) Explain the role of pneumatics and 7 hydraulics in industries which have potential for fire hazard.
- (a) Explain the safety precautions taken during 7 transportation of chemicals by commercial vehicles.
  - (b) Explain the role of symbols, signs and colour 7 codes in implementation of safety standards in work place.
- 3. (a) Discuss safety factors that must be 7 considered during operation and maintenance of plants and equipments.
  - (b) Describe the role of ergonomics in 7 maintenance of safety and productivity in industries.

- 4. (a) Explain different elements of safety of an 7 organisation.
  - (b) What is the difference between first aid and 7 causulity treatment? Explain different personnel protection equipments used for the safety in industry.
- 5. (a) Explain what role does factory inspectorate 7
  play in maintenance of safely standards in industry.
  - (b) What are the objectives and salient features 7 of safety audit? Explain in details.
- 6. (a) What are the essential components of 7 hazard control programme? Explain in detail.
  - (b) What are the safety recommendation and 7 precautions for working in radiation prone environment? Describe.
- 7. Write short notes on the following : 3.5x4=14
  - (a) Lighting for safety in industry.
  - (b) Eye protection and respiratory equipments.
  - (c) Trade unions and safety.
  - (d) Legal aspects of industrial safety.

**BIMEE-014**