## **BME-030**

## BACHELOR OF TECHNOLOGY IN MECHANICAL ENGINEERING (COMPUTER INTEGRATED MANUFACTURING) Term-End Examination

## December, 2013

## **BME-030 : SAFETY ENGINEERING**

Time : 3 hours

01971

Maximum Marks : 70

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

1.	(a)	"Safety alone is not the objective of Safety Engineering. Health of workers should also be included in the objective". Justify the statement.	5
	(b)	Describe format of keeping record of worker related injury, ill health or death.	5
2.	(a)	Discuss Heinrich theory of accident causation.	5
	(b)	What are the diseases that commonly affect industrial workers ?	5
3.	(a)	What do you mean by Environment pollution ?	5
	(b)	What is TLV ? How can you detect a disagreeable environment ?	5

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- 4. (a) What is ozone hole? What suggestions were 5 made by UNO to avoid ozone layer depletion?
  - (b) What are the effects of SO<sub>2</sub> and CO on 5 health of human being ?
- 5. (a) What is Municipal Solid Waste ? How is 5 solid waste disposed off ?
  - (b) What are the effects of discarding batteries 5 in open ?
- (a) Distinguish between short term acute 5 hazard and long term environmental hazard.
  - (b) What is CWTF and how does it function ? 5
- 7. (a) What preparations are to be made for 5 recycling a waste ?
  - (b) Distinguish between recycling of industrial 5 waste and MSW.
- 8. (a) What is a heat stroke ? What symptoms 5 you should look for to ascertain that a person has received heat stroke ? How should the victim be treated ?
  - (b) What are different elements of emergency 5 planning ?

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- 9. (a) What do you understand by vulnerability 5 to disaster ? Give examples.
  - (b) What is the difference between orientation 5 and in-depth safety training ?
- **10.** Write notes on *any two* :

2x5 = 10

- (a) Bhopal Gas Disaster
- (b) Electrical Hazards
- (c) Economics of recycling
- (d) COD and BOD
- (e) Landfill