No. of Printed Pages: 3

BME-030

B.Tech. MECHANICAL ENGINEERING (COMPUTER INTEGRATED MANUFACTURING)

Term-End Examination

DDB13 Dece

December, 2018

BME-030: SAFETY ENGINEERING

Tir	ne : 3	hours Maximum Marks:	Maximum Marks : 70	
Note: Attempt any seven questions. All questions carry equal marks.				
1.	(a)	Discuss the factors affecting the health of a worker in a workplace.	5	
	(b)	What are the impediments in implementation of safety functions ? Explain.	5	
2.	(a)	How should medical help and first aid be provided in the workplace?	5	
	(b)	What is an accident ? What are the common causes of industrial accidents ?	5	

3.	(a)	what do you understand by environmental pollution? List the different pollutants of air.	5
	(b)	Distinguish between industrial and natural environment. What is an artificial environment?	5
4.	(a)	Describe the "Plan-Do-Check-Adjust" model	5
	(b)	of continual improvement of EMS. What are the various types of pollutants of water? Discuss the effects of these	Ð
		pollutants on human beings.	5
5.	(a)	Describe briefly how the Compensation Act, 1923, helps workers who suffer in	F
	(b) .	industrial environment. Give ways of minimizing hazards using	5
		protective equipment.	5
6.	(a)	Define industrial wastes. Explain the different methods of treatment of industrial	
		wastes.	5
	(b)	How are the exhaust gases from incinerator cleaned? Describe baghouse	
		filter.	5

7.	(a)	What is recycling? What preparations are made for recycling waste?	5
	(b)	What are the different ways by which environment is polluted? Explain briefly.	5
8.	(a)	Describe the role of First Aid kit in responding to an emergency.	5
	(b)	Discuss the safety promotion adopted in a company. How is it developed?	5
9.	(a)	What is the critical incident technique? Discuss briefly.	5
	(b)	Explain the method of disposal of hazardous wastes from an industry.	5
10.	(a)	Discuss the methods adopted in extinguishing fires.	5
	(b)	Write a short note on Ganga Action Plan.	5