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BIMEE-014

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P.T.O.

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

Term-End Examination

□□□□4Z December, 2017

BIMEE-014: SAFETY ENGINEERING

Tir	ne : 3	hours Maximum Marks :	Maximum Marks : 70	
Note: Answer any five questions. All questions carrequal marks.				
1.	(a)	What is the need of safety training in educational institutions?	7	
	(b)	What is the role of first aid in dealing with an emergency? Describe the contents of a first aid kit. What are the different elements of emergency planning?	7	
2.	(a)	What is Noise-Induced Hearing Loss (NIHL)? What types of sounds cause NIHL?	7	
	(b)	Explain the procedure of safe handling of inflammable chemicals in industries.	7	
3.	(a)	What precautions would you prescribe for a work environment which contains a risk of chemical hazards?	7	
	(b)	Describe the types of accidents caused due to electricity and discuss the preventive measures.	7	

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4.	(a)	Make a list of operations performed by	
		industrial workers that require safety. What are the benefits of practising a safety programme?	7
	(b)	What are the direct and indirect costs associated with accidents? Explain.	7
5.	(a)	Describe the pollutants of air and water and discuss the greenhouse effect.	7
	(b)	Discuss the health problems arising out of industrialization and the measures for the health protection of workers.	7
6.	(a)	What is medical waste? What methods are commonly used for disposing off medical waste? Also describe incineration of medical waste and common waste treatment facility.	7
	(b)	What kind of safety measures should be observed during welding and foundry work in industries?	7
7.	(a)	Describe the various methods of fire detection with particular emphasis on automatic fire detectors.	7
	(b)	What are the objectives and salient features of a safety audit? Explain in detail	7