

Code No: RT42014F

## **R13**

Set No. 1

## IV B.Tech II Semester Regular/Supplementary Examinations, April - 2018 SAFETY ENGINEERING

(Civil Engineering)

Time: 3 hours Max. Marks: 70

Question paper consists of Part-A and Part-B Answer ALL sub questions from Part-A Answer any THREE questions from Part-B \*\*\*\*\*

## PART-A (22 Marks)

1.	a)	Write short notes on contractual clauses.	[4]
	b)	What are various causes of accidents?	[4]
	c)	What are the requirements for safe work platforms?	[3]
	d)	Explain use of grinding tools.	[4]
	e)	Explain safety in demolition work.	[3]
	f)	Explain in briefly fire hydrant and extinguishers.	[4]
		$\underline{\mathbf{PART-B}} \ (3x16 = 48 \ Marks)$	
2.	a)	What are pre contract activities? Explain them.	[8]
	b)	Explain briefly about construction regulations.	[8]
3.	a)	Define Scaffoldings. Explain various types of scaffoldings with neat sketches.	[8]
	b)	What are the prevention methods that are taken in the construction of high rise	
		buildings?	[8]
4.	a)	Describe fall protection in construction according to OSHA.	[8]
	b)	Explain about work permit systems.	[8]
5.	a)	What are the different types of excavation equipment? Explain any two of them.	[8]
	b)	Describe about conveyors. Explain the uses of conveyors and Mobile cranes.	[8]
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6.	a)	What are the various types of health hazards involved in demolition works?	[8]
	b)	Explain about safe clearance zone during demolition work.	[8]
7.	a)	What are the fire safety measures taken in the use of portable tools?	[8]
	a) b)	Describe about emergency planning during fire accidents.	[8]
	U)	Describe about emergency praining during the accidents.	101