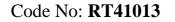


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# **R13**

Max. Marks: 70

#### IV B.Tech I Semester Supplementary Examinations, February/March - 2018 CONSTRUCTION TECHNOLOGY AND MANAGEMENT (Civil Engineering)

#### Time: 3 hours

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

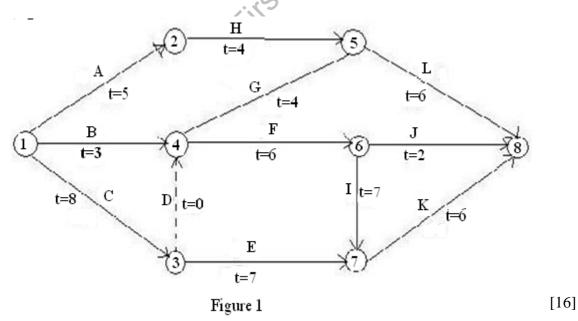
## PART-A (22 Marks)

1.	a)	What do you understand by critical path?	[4]
	b)	What is project planning?	[3]
	c)	Explain the event slack?	[4]
	d)	Write about hoists.	[3]
	e)	Write the purpose of impact crushers.	[4]
	f)	Write about placing of concrete.	[4]

#### $\underline{\mathbf{PART}}_{\mathbf{B}} (3x16 = 48 Marks)$

2.	a)	What are	different	elements	present	in	PERT	network	and	explain	with	an	
		example						~					[8]

- b) Explain in detail Resources Smoothing method of Resources allocation problems. [8]
- 3. The network of a certain project is shown in Figure 1 with the estimated durations of various activities. Determine the following: (i) Earliest event time and latest event time (ii) Earliest and latest start and finish times of each activity. (iii) Total and free floats for each activity. (iv) Critical path for the network.



4. Draw a typical cost – duration curve and show on the optimum duration and minimum project Cost.

[16]

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Co	ode No: <b>RT41013</b>	<b>R13</b>	Set No. 1
5. a b	<ul> <li>Write short notes on</li> <li>Write short notes on</li> <li>(i) Screening equ</li> <li>(ii) Crushers</li> </ul>		[8]
	(iii) Handling equ	ipment	[8]
б. а b	<ul><li>a) Briefly explain about</li><li>b) Write about mixing</li></ul>	[8] [8]	
7.	(b) Form work	l and safety engineering	[12]
	(c) Fabrication an	a erection	[16]

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