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Roll No.

320655(20)

B. E. (Sixth Semester) Examination, April-May 2020 (New Scheme)

(Civil Engg. Branch)

CONSTRUCTION PLANNING

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

- Note: (i) Answer all questions. Part (a) of each question is compulsory. Attempt any two parts from (b), (c) and (d) of each question.
 - (ii) The figures in the right hand margin indicate marks.

mod wheeling Unit-I during Comt litera

- 1. (a) What is Planning? The sails strike and ordered and the first 2
 - (b) What are the methods of scheduling? Explain with the help of a suitable example.

PTO

		[2]			[3]	
	(c)	What do you mean by LOB technique?	7		(i) Draw the Network for the project	
	(d)	What do you understand by Job Layout? What are			(ii) Find the critical path	
		the factors affecting the job layout?	7 H		(iii) Find free float, total float and independent float for each activity	
		Unit-II			(d) Differentiate between CPM and PERT.	
2.		What is slack?	2		Unit-IV	
	(b)	What do you mean by PERT? What is its significance?	7	4.	(a) What are Resource allocation?	
	(c)	How the probability of completion time for a project can be determined? Write the steps involved in it.	7		(b) What are the necessary data required for updating? Also draw the flowchart for updating.	
		What are the advantages and disadvantages of network analysis over other technique?	7		(c) What do you mean by resource smoothing? What are the steps involved for doing the resource smoothing?	
3.		What is a critical path?	2		(d) Explain the term updating. Why is it necessary?	
	(b)	What do you mean by earliest event time and latest			Unit-V	
		event time? Formulate the equation for them.	7	5.	(a) Define TQM.	
	(c)	The following table gives the activities in a Construction Project and other relevant information: Activity 1-2 1-3 2-3 2-4 3-4 4-5	7		(b) Explain the basic elements of quality with a flow diagram.	

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Duration 20

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(c) Explain the use of documentation and quality control
circles in construction quality management.
(d) Describe in detail, the operation and application of
the following types of excavating equipment with
line-diagram showing the basic parts:
(i) Power shovel
(ii) Backhoe
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contrager all initial for lower by all and