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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VIII(NEW) EXAMINATION - SUMMER 2019

Subject Code:2180611

Date:09/05/2019

Subject Name: Construction Management	
Time:10:30 AM TO 01:00 PM	

Total Marks: 70

Instructions:

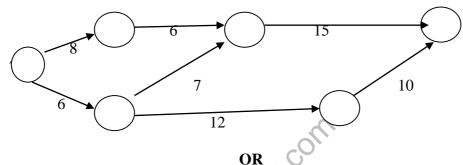
- 1. Attempt all questions.
- 2. Make suitable assumptions wherever necessary.
- 3. Figures to the right indicate full marks.

MARKS

03

04

- Why Indian construction industry need construction management? 0.1 (a) 03 What is Bar chart? Explain with example of Bar chart. 04 **(b)** (c) Draw a job layout of Road construction. 07
- (a) Define the term 1) Inventory 2) Cost Code 3) revenue Q.2
 - (b) Prepare a work breakdown structure for Dam construction
 - From the following network and find out project duration, critical path, 07 (c) total float and free float.



A) Draw the network from following data also find out critical path, **(c)** 07 critical activity, project duration

Sr.No	Activity	Duration	Precedence	Successor
1	А	5		E
2	В	6		C,D
3	C	4	В	F
4	D	9	В	G
5	E	8	А	Ι
6	F	10	С	Н
7	G	5	D	
8	Н	6	F	
9	Ι	7	Е	

- 0.3 (a) Define the term 1) Resource allocation 2) Slack 3) Dummy activity 03 (b) What is value engineering? Explain in detail. 04 What is optimum solution in network analysis? Explain the steps to find an 07 (c) optimum solution. OR Define the term 1) Project cost 2) Critical path 3) Float 03 0.3 (a) (b) What is a time grid diagram explain in detail 04 Write a short note on "Precedence Network. (c) 07 (a) Enumerate and discuss principles of organization. 03 **Q.4** (b) Write down importance of Material Management in Construction Industry 04 07
 - (c) Write a short note on Ladder network.

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O.4

- (a) Discuss ABC analysis for material management State and describe various causes of accidents at the construction site. **(b)**
- 04 07
- Draw the network from following three time estimate, find out total project (c) duration.

Activity	Optimistic time	Pessimistic time	Most likely time
1-2	2	6	4
1-3	2	10	6
1-4	7	9	6
2-3	4	9	7
3-5	3	12	11
4-5	4	14	10

Q.5	(a)	List out project performance attributes for success of project	03
	(b)	Write short note on Updating.	04
	(c)	Explain the steps to solve linear programming problem by simplex method.	07
		OR	
Q.5	(a)	What is breakeven point? Where it can be used?	03
-	(b)	Differentiate between quality assurance and quality control	04
	(c)	Write steps to solve linear programming problem by graphical method.	07

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