Name:

**Enrolment No:** 



UNIVERSITY WITH A PURPOSE

## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, June 2021(online)

Course: Construction Management Practices Program: M.Tech, Structure Engg., Civil Engg Course Code: CIVL 7017 Pages: 04 Instructions: Semester: II Time 03 hrs. Max. Marks: 100

## **SECTION A**

S. No.		Marks	СО
Q 1	<ul> <li>A. CPM stands for <ul> <li>a. Critical Project Management</li> <li>b. Critical Path Management</li> <li>c. Critical Path Method</li> <li>d. Critical Program Method</li> </ul> </li> <li>B. In CPM network Critical Path is defined as <ul> <li>a. Longest path with minimum slack</li> <li>b. Longest path with zero float</li> <li>c. Path with zero float only</li> <li>d. Path with minimum float</li> </ul> </li> <li>C. On A-O-A network <ul> <li>a. Activity shown on node &amp; arrow give direction</li> <li>b. Activity shown on node &amp; event by node</li> <li>c. Activity shown on node &amp; event also on node</li> <li>d. Activity shown over Arrow &amp; Event shown below arrow</li> </ul> </li> <li>D. Fulkerson's rule is used for <ul> <li>a. Drawing network with A-O-N method</li> <li>b. Calculating project time of a network</li> <li>c. Numbering the events in a network</li> </ul> </li> <li>E. Resource Levelling means <ul> <li>a. Allocating the Resources to the project</li> <li>b. Calculating project time of a network</li> <li>c. Calculating project time of a network</li> <li>d. Calculating reject time of a network</li> <li>d. Calculating the Resources to the project</li> </ul> </li> </ul>	5	CO2
Q 2	Define briefly the role of Construction Manager	5	CO1
Q 3	Define & differentiate the following: (1) Float (2) Slack	5	CO3
Q 4	A. BOT contract called as Build, & contract.	5	CO3

	B. Ful Cor	1 form ntract.		PP con	ntract	is									
Q 5	Define the various phases of Construction Project?										5	CO1			
Q 6	What is need & importance of estimation & costing?									5	CO5				
							SECT	ION	B						
Q 7	What are v advantage								ustry?	' Expla	ain char	acteri	stic,		
	<b>OR</b> What are various Alternate Dispute Resolution methods? Give detail of arbitration & its advantage & Disadvantage.										10	CO3			
Q 8	As a project manager, how you define project and what are the various reasons you understand are for failure of any construction Project?											10	CO4		
Q 9	The network of a construction project as shown in fig below with estimated durations of various activities.								10	CO2					
Q 10	A construction Project consists of 12 activities. The predecessor relationships and duration mentioned below										ips and				
	Activity Predece ssors	A -	B A	C A	D A	E C	F C	G B, E	H F	I F	J D, I	K G, H	K, J	10	CO2
	Duratio ns	3	5	4	6	3	4	5	5	3	4	2	3		

	Draw a Netw	work for the const	ruction projec	et and identify Critic	al Path.			
Q11	A project co	project						
	Activity	Nor	mal	Cra	ash			
		Time (days)	(days) Cost (Rs.) Time (Days) Cost (Rs.) (Rs.)			10	CO2	
	1-2	5	4000	4 3	5000		10	002
	1-3	7	8000		10000			
	2-3	6	6000	2	8400			
	Draw the tin	ne-cost diagram a		CCTION-C				
Q 12	Figure show following							
	1. 1							
	2. 0							
	3. 2							
	4. ]	5)	20	CO5				
	by							
	Long wall a							
	OR							
	Center Line							

