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Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES Online End Semester Examination, December 2020

Construction Engineering and Management Course: Semester: V **Program:** B.Tech Civil Engg Time 03 hrs.

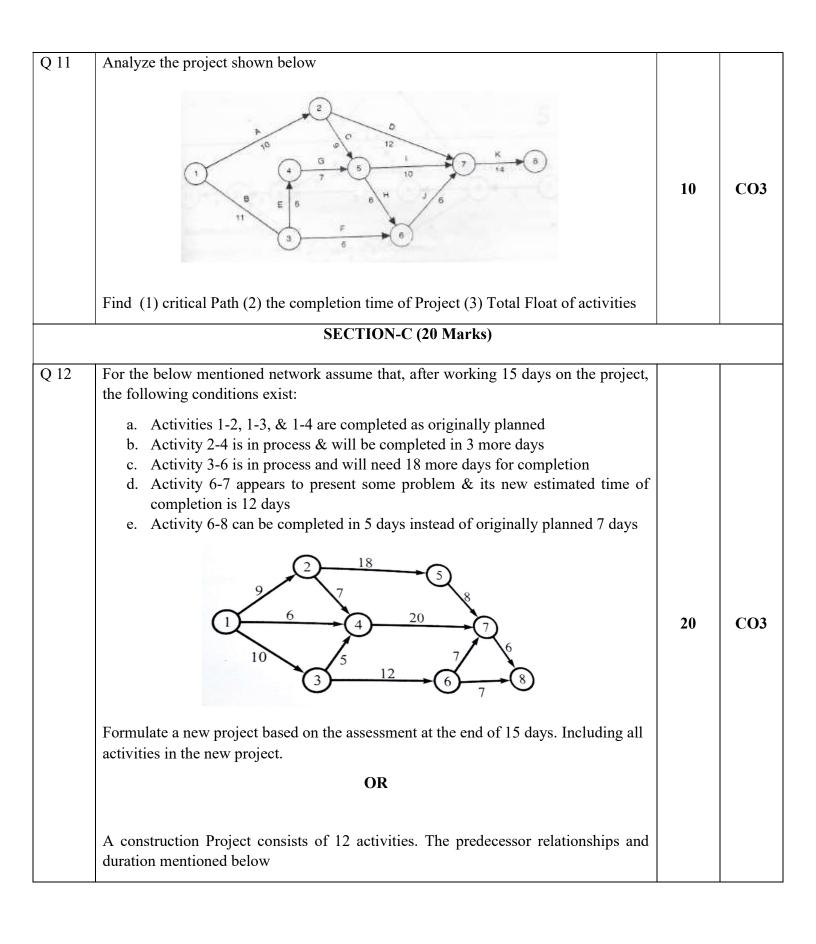
Course Code: CIVL 3021 Max. Marks: 100

Instructions:

SECTION A (30 Marks)

S. No.		Marks	CO
Q 1	A. CPM stands for a. Critical Project Management b. Critical Path Management c. Critical Path Method d. Critical Program Method B. In CPM network Critical Path is defined as a. Longest path with minimum slack b. Longest path with zero float c. Path with zero float only d. Path with minimum float C. On A-O-A network a. Activity shown on node & arrow give direction b. Activity shown on node & event by node c. Activity shown on node & event also on node d. Activity shown over Arrow & Event shown below arrow D. Fulkerson's rule is used for a. Drawing network with A-O-N method b. Calculating project time of a network c. Numbering the events in a network d. Calculating critical path in a network E. Resource Levelling means a. Allocating the Resources to the project b. Calculating project time of a network c. Numbering the events in a network d. Calculating project time of a network c. Numbering the events in a network d. Calculating project time of a network c. Numbering the events in a network d. Calculating critical path in a network d. Calculating critical path in a network	5	CO2
Q 2	A. BOT contract called as Build, & contract. B. Full form of PPP contract is Contract.	5	CO1
Q 3	Define characteristics of "Functional organisation".	5	CO1

Q 4	Define two	approaches of	resource al	location	for their optimu	m utilization in Pro	oject.	5	CO3			
Q 5			owing:					5	CO2			
Q 6	Define term	s Direct Cost	& Indirect of	cost for a	project.			5	CO4			
			SE	CCTION	B (50 Marks)							
Q 7	In construct characteristi	lain	10	CO1								
Q 8	Draw the ne	the										
		ivity	Duration	Preced	ı							
	A-B		7	-								
	B-C		10		-B				CO2			
	B-D		15	A.				10				
	C-D		7	B-				10				
	С-Е		12	B-								
	D-E E-F		3 5		-D, C-D -E, D-E							
	How many 1											
Q 9	of them? Discuss the the process: What is diff managemen	olain	10	CO4								
Q 10	A project c	roject										
]	Vormal		C	rash						
	Activity	Activity Time (days) Co. (Rs			Time (Days)	Cost (Rs.)		10	CO4			
	1-2	5	400	00	4	5000						
	1-3	7	800	00	3	10000						
	2-3	6	600	00	2	8400						
	Duares 41	Draw the time-cost diagram also.										
	Draw the tir	ne-cost diagra	iii aiso.									



Predeces sors - A A A C C B,E F F D, I G,H K, J Duration sors 3 5 4 6 3 4 5 5 3 4 2 3	Activity	A	В	С	D	Е	F	G	Н	I	J	K	L
		-	A	A	A	С	С	В,Е	F	F	D, I	G,H	K, J
		3	5	4	6	3	4	5	5	3	4	2	3

Draw a Network for the construction project and identify following

(i) Activity time, (ii) All floats for each activity (iii) Critical Path for the network