Name:

**Enrolment No:** 



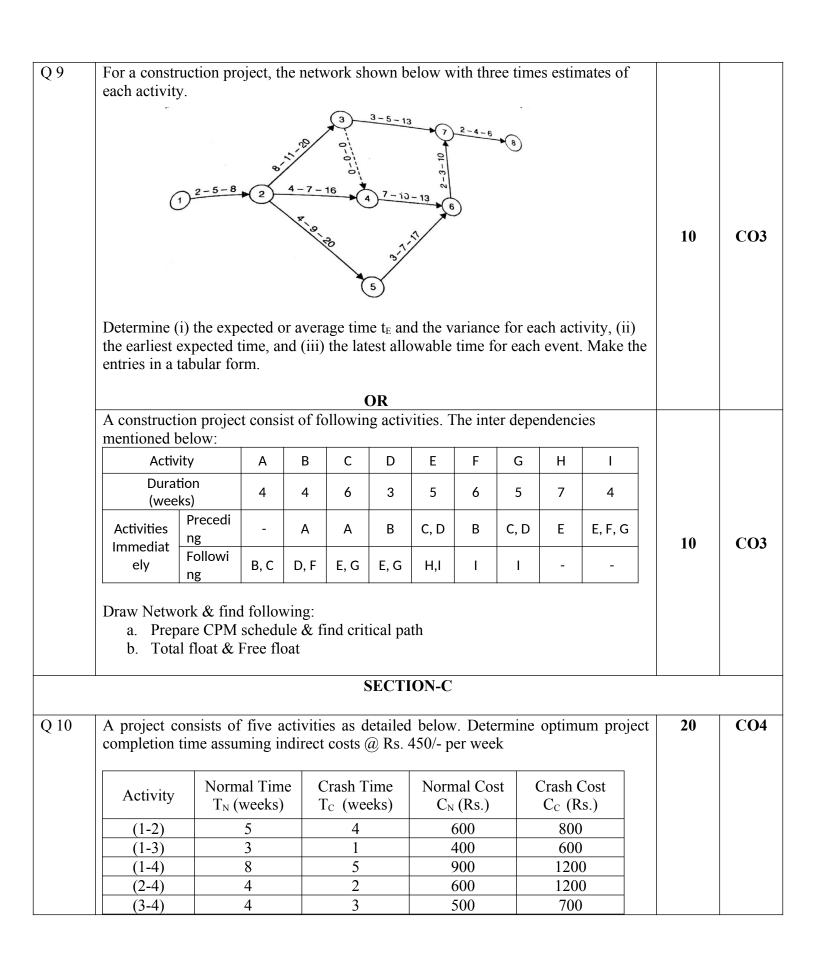
## UNIVERSITY OF PETROLEUM AND ENERGY STUDIES End Semester Examination, December 2018

Course: B.Tech Civil Engg Semester: V

**Programme:** Construction Planning & Management (CEEG 316)

Time: 03 hrs. Max. Marks: 100

Instruc	tions:														
						S	ECTI	ON A							
S. No.														Marks	CO
Q 1	What is p	roject	planni	ing? V	Vrite s	hort n	ote on	Pre t	ender	plann	ing &	Post	tender	4	CO1
Q 2	What is org	_				cterist	ics of	"Func	tional	organ	isation	ı". Wh	at are	4	CO1
Q 3	Write short	note o	on Proj	ject Q	uality 1	Manag	gement							4	CO4
Q 4	What do yo	ou und	erstand	d by u	pdating	g? Wh	y it is	essent	ial?					4	CO5
Q 5	A construct identified b		-					-	edeces	sor re	lations	hips a	re		
	Activity	Α	В	С	D	Е	F	G	Н	I	J	К	L	4	CO2
	Identifica tion Draw Netw	(1,2)	(2,4)	(2,3)	(2,7)	(3,4)	(3,5)	(4,6)	(5,6)	(5,7)	(7,8)	(6,8)	(8,9)	4	CO2
	Blaw I (ct)	OIII D	1451411			S	ECTI	ON B							
Q 6	a. Briefly b. What is								e slack	-				5 5	CO2
Q 7	What is Profirst step of	oject R	Risk ma	anager	nent &						lain th	e proc	ess of	10	CO4
Q 8	What is con	ntract?	Briefl	y desc	ribe v	arious	type o	of cont	ract in	const	ruction	n indu	stry.	10	CO1



d. Activit	ies 1-2, 1 y 2-4 is in y 3-6 is in y 6-7 appetion is 12	s exist:  -3, & 1-4; n process an process appears to p  2 days	are comple & will be cond will ne resent son	eted as orig completed eed 18 mor ne problen	ginally plan in 3 more te days for the & its ne	nned days completio w estimate	n ed time of	CO3
Includi ii. Draw b day. In	ng all act oar chart f dicate als	ivities in to for the origon the mod	he new proginal proje ification b	ect and sho ased on the	w on it the e re-assess	e progress ment.	as on 15th	
Includi ii. Draw b day. In  A Project cons are indicated b	ng all act par chart the dicate als dists of 7 and all acts	ivities in to for the origon the mode	he new proginal projectification b	oject ect and sho ased on the	w on it the	e progress ment.	as on 15th	
Includi ii. Draw b day. In	ng all act par chart the dicate als sists of 7 a	ivities in to for the origon the mod	he new proginal proje ification b	oject ect and sho ased on the	w on it the e re-assess	e progress ment.	as on 15th	COS

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**Instructions:** 

SI	₹.	$\mathbf{T}^{r}$	M	N	$\mathbf{A}$
	'.'		,		

S. No.			Marks	CO
Q 1	What is project management? Briefly	y describe Project Planning & Project control.	4	CO1
Q 2	What are various type of Contract Lump Sum contract.	in construction industry? Explain for BOT &	4	CO1
Q 3	What is Risk Management for project showing each step with its purpose &	t? Draw flow chart of risk management process, a tools used.	4	CO4
Q 4	What do you understand by resource	Smoothing & Resource Levelling?	4	CO5
Q 5	A construction Project has 14 activities are as below:  (1) A is the first activity  (3) D, E and F follow B  (5) H follows D, but it cannot start until E is complete  (7) F and J precede K  (9) M succeeds L& K  Draw Network Diagram	(2) B & C can be performed in parallel and are immediate successor to A  (4) G follows E  (6) I and J succeed G  (8) H and I precede L  (10) The last operation N succeeds M and C	4	CO2
		SECTION B		
Q 6	<ul><li>a. What is difference in Float &amp; Sla</li><li>b. What is different in Total float &amp;</li></ul>		5 5	CO2
Q 7	for Quality control.	& what are steps involved? Explain the process	10	CO4
Q 8	What is Organisation? Elaborate the	different types of organization & their features.	10	CO1
Q 9	For a construction project, the network each activity.	rk shown below with three times estimates of	10	CO3

	Determine (i the earliest e entries in a t	xpected	time, ar	15-19 or avera	_						` ′		
					O	R							
	The network								s been d	efined	in the		
	below table		mated d	luration C	s of var D	rious ac E	tivities. F	G	Н	T	,		
	Activity Node	(1-2)	(1-3)	(1-4)	(3-4)	(2-6)	(3-6)	(3-5)	(4-5)	(5-6)	-		
	Duration	3	4	14	3	5	6	4	1	1			
	(4) A adam vator v			~ ~		•			. ~				
	the network	time, (ii	) Total f	loat &		at for ea		vity (iii	) Critica	al Path	for		
Q 10		onsists o	f four a	ctivitie	SI s as de	ECTIO	N-C	Determi					
Q 10	the network  A project co	onsists of ime assu	f four a	e C	SI s as de	tailed b	N-C	Determi r week	ne opti				
Q 10	A project co completion t	onsists of ime assu	f four a	e C	s as de costs @	tailed b	oelow. l	Determir week  Cost Rs.)	ne opti	mum p		20	CO4
Q 10	A project cocompletion to Activity (1-2) (2-3)	onsists of ime assu	of four a uming ir mal Tim (weeks)	e C	s as de costs @ rash Ting (week 2 2	tailed b	DN-C Delow. 1 000/- per Normal C <sub>N</sub> (R 400 300	Determine r week  Cost Rs.)  0	Crasi C <sub>C</sub>	mum p n Cost (Rs.) 000 500		20	CO4
Q 10	A project cocompletion to Activity  (1-2) (2-3) (2-4)	onsists of ime assu	of four a laming in mal Tim (weeks) 4 5 7	e C	s as de costs @ rash Tire (week 2 2 5	tailed b	DN-C  Delow. I  000/- per  Normal  C <sub>N</sub> (R  400  300  360	Determir week  Cost Rs.)  0 0 0	Crasl C <sub>C</sub> 12 75	mum p n Cost (Rs.) 000 500		20	CO4
Q 10	A project cocompletion to Activity (1-2) (2-3)	onsists of time assume assuments of the time	of four a laming in mal Tim (weeks) 4 5 7 4	e C	s as de costs @ rash Ting (week 2 2	tailed b	DN-C Delow. 1 000/- per Normal C <sub>N</sub> (R 400 300	Determir week  Cost Rs.)  0 0 0	Crasl C <sub>C</sub> 12 75	mum p n Cost (Rs.) 000 500		20	CO4

In a construction project, there are 7 activities, whose time estimate and manpower requirement are indicated below:    Activity	is the to	otal increa oar chart f	ork & detase in the for the ori	project du	ration? ct and sho	w on it the	e progress	vork. What as on 10th		
Activity         (1-2)         (1-3)         (2-3)         (2-4)         (3-5)         (4-5)         (5-6)           Time (days)         2         4         8         5         7         2         2           Manpower         3         0         7         4         3         2         4		dicate als	o the mod	OF		e re ussess	inent			
Time (days) 2 4 8 5 7 2 2 2 2	day. In	on projec	t, there are	OF	1			anpower		
Manpower 3 0 7 4 3 2 4	In a construction requirement ar	on projecte indicate	t, there are	OF activitie	es, whose	time estim	ate and ma			
	In a construction requirement are Activity Time	on projecte indicate (1-2)	t, there are ed below:	OF e 7 activitie	es, whose	time estim	ate and ma	(5-6)	20	CO