Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES

End Semester Examination, May 2019

Course: Project Management & Contract Administration

Semester: VI Program: MBA (PM) **Time: 03 Hours** Course code:LSCM 8001 Max. Marks: 100

Instructions: Use of calculator is allowed

SECTION A (Define terms/answer in one or two lines)

								Marks	СО
Q 1	a) Project b) PMBOK c) Product sc d) WACC e) Stakeholde f) LSTK g) Triple Con h) EIA i) Procureme j) EVMS	er astraint						2*10 = 20	CO1, CO2, CO3, CO4, CO5
		SECTION B	(Write sh	ort notes	on any fo	our)			
Q 2	Competencies of I	Project Manager						5	CO1
Q 3	Non-Financial As	pects of Business Ca	se Analys	is				5	CO2
Q 4	CPM vs. PERT							5	CO3
Q 5	Time Overrun & Cost Overrun							5	CO4
Q 6	Types of Contract							5	CO3
		SECTION-0	C (Answe	r any two	question	s)			
Q 7		life cycle and its di t factors behave duri			neir speci	fic outcor	mes. How	15	CO1
Q 8	the following proje	The cash flows of two projects are as under. Determine the payback period and NPV of the following projects and compare them according to each criterion. The cost of capital is 12% per annum. (All figures in in Rs. Crores)							
	Project Name	Initial Investment	Year 1	Year 2	Year 3	Year 4	Year 5	15	CO2
	GANGA VALLEY	100	40	30	30	30	30		
	YAMUNA VALLEY	100	50	50	20	15	10	1	1

Q 9	1 0	_					pleted in 12 months.		
	The follow						f each 4 months:		
		Month	Planned (Cost	EV	Actual Co	st		
		1	70,000		20,000	25,000			
		2	140,000		60,000	90,000			
		3	220,000		100,000	150,000		1.5	COA
		4	300,000		140,000	210,000		15	CO3
	,	alculate the cost onth.	variance,	schedule v	variance, (CPI & SPI	at the end of fourth		
		the end of the 4 tely time of com	,				completion and the same.		
	c) Es	•			•		pecomes 100% from		
	_		target effi	ciency so	that projec	ct complete:	s in time and budget.		
	, ,		<u> </u>		TION-D	1	8		1
Q 10	Consider th	ne data of a projec	t shown in	the followi	ng table:				
	Activity	Immediate	Time (weeks)	Cost (Rs. '000)			
		predecessor(s)	Normal	Crash	Normal	Crash			
	A	-	8	6	4000	4300			

30

CO4

Activity	Immediate	Time (weeks)	Cost (Rs. '000)		
	predecessor(s)	Normal	Crash	Normal	Crash	
A	-	8	6	4000	4300	
В	-	5	4	3000	3150	
С	-	10	8	6000	6800	
D	A	6	5	4000	4200	
Е	С	7	7	5000	-	
F	D	9	7	7000	7550	
G	В,Е	3	2	2000	2100	

If the indirect cost per week is Rs. 350, find the optimal crashed project completion time.

Then, plan project execution with the help of Gantt Chart and prepare Cost baseline.

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SECTION A (Define terms/answer in one or two lines)

								Marks	CO
Q 1	k) Project Ma l) PMI m) Project sco n) Payback po o) WBS Dict p) Network q) Contract r) Project Spo s) Risk Regis t) CPI & SPI	ope eriod ionary onsor eter						2*10 = 20	CO1, CO2, CO3, CO4, CO5
		SECTION B	Write sh	ort notes	on any fo	our)			
Q 2	Project Manageme	ent Knowledge Areas	S					5	CO1
Q 3	Project Charter							5	CO2
Q 4	Quality Costs							5	CO4
Q 5	Project Risk							5	CO4
Q 6	PM softwares							5	CO3
		SECTION-0	C (Answe	r any two	question	s)			
Q 7		dentified and select & techniques in act n India.						15	CO1
Q 8	below. Calculate t	estments and cash in the payback period ar The cost of capital is Initial Investment 4000 4000	nd NPV of	f these pro	jects and	rate them	according	15	CO2

		FINR 7 Lakhs. are the cumulative value Planned Cost					
) G1 1	2	140,000	70,000	100,000		15	CO3
month. f) At the likely t g) Estima next m	end of the 2 ime of com te likely tin onth.	variance, schedu 2 nd month, estimat apletion of project me for completion e target efficiency	te the estimation if efficiency of project in	te the cost at co y remains the sa f efficiency beco	mpletion and the me. omes 100% from		

SECTION-D

Q 10 Consider the data of a project shown in the following table:

Activity	Immediate predecessor(s)	Time (1	weeks)	Cost (Rs.)		
	predecessor(s)	Normal	Crash	Normal	Crash	
A	-	7	4	1800	2100	
В	-	9	7	3500	3800	
С	В	5	4	2500	2625	
D	A	8	5	4000	4225	
Е	С	9	8	3000	3325	
F	В	11	11	3000		

30

CO4

If the indirect cost per week is Rs. 310, find the optimal crashed project completion time.

Then, plan project execution with the help of Gantt Chart and prepare Cost baseline.