

Name:

Enrolment No:



UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
Online End Semester Examination, May 2021

Course : Infrastructure Project Management & Control
Program : BBA (FAS)
Course Code: LSCM 3005

Semester: VI
Time: 03 hrs.
Max. Marks: 100

Instructions: All questions are compulsory

SECTION A (30 Marks)

- 1. Each Question carries 5 Marks**
- 2. Answer the following questions pointwise strictly.**

S. No.		Marks	CO
Q 1	Define project according to PMI, giving full form of PMI.	5	CO 1
Q 2	Name all 5 stages of Project Life Cycle.	5	CO 1
Q 3	What do you mean by Project Charter?	5	CO 1
Q 4	Mention all four sub-plans of Project Execution Plan.	5	CO 1
Q 5	List various cost estimates that prepared during the life cycle of a project.	5	CO 1
Q 6	Explain force majeure giving some examples.	5	CO 1

SECTION B (50 Marks)

- 1. Each question carries 10 marks**
- 2. Instruction: Answer precisely, write legibly and stepwise.**

Q 7	How the concept of time value of money is applied in financial evaluation of projects?	10	CO2
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Q 8	The following table gives the data on a project.				10	CO2	
	Activity	Description	Immediate Predecessors	Duration (Weeks)			Total Cost Rs. '000
	A	Basic design	-	10			100
	B	Hardware design for A	A	8			64
	C	Hardware design for B	A	6			96
	D	Drawings for B	C	4			16
	E	Software specifications	C	2			36
	F	Parts purchase for B	C	4			84
	G	Parts purchase for A	B	4			80
	H	Drawings for A	B	5			50
	I	Installation drawings	B,C	5			60
	J	Software purchases	E	5			80
	K	Delivery of parts for B	F	5			0
	L	Delivery of parts for A	G	3			0
	M	Software delivery	J	3			0
	N	Assembly of A	H,L	1			14
	O	Assembly of B	E,K	5			80
P	Test A	N	2	24			
Q	Test B	O	3	36			
R	Final Installation	I,P,Q	8	104			
Z	Final system test	R,M	6	66			
Draw the project network diagram and find the minimum project completion time.							
Q 9	Draw the Gantt Chart for above project (in previous question)				10	CO2	
Q 10	Prepare the cost baseline of this project.				10	CO2	
Q 11	Compare & contrast various tendering process.				10	CO3	

SECTION-C (20 marks)

1. Read the following project financing description carefully.

2. Instruction: Solve systematically showing sample calculations and write legibly.

Q 12	The capital investment of Rs. 2,10,00,000 for a project is sourced from following different sources:					20	CO 3
	Source	Amount (Rs.)	Cost				
	Equity capital	70,00,000	15%				
	Preference Capital	35,00,000	14%				
	Debentures	35,00,000	12%				
Remaining capital requirement are met through term loans secured at 8% interest rate.							
The projected annual cash inflows during the project life:							
Year	1	2	3	4	5		
Cash Inflow	40,00,000	60,00,000	80,00,000	60,00,000	40,00,000		
The salvage value at the end of project life is Rs. 40,00,000; which will be available at the end of sixth year only. Examine on the financial feasibility of the project using NPV criterion.							