Name: **Enrolment No:**	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2024

Course: Project Management **Semester: V**
Program: BBA (Logistics Management) **Time: 03 Hrs.**
Course Code: LSCM 2018 **Max. Marks: 100**
Instructions: Usage of calculator and graph paper allowed.

SECTION A
10Qx2M=20Marks

S. No.		Marks	CO
Q 1	(1.1-1.5) Define terms in one or two lines. (1.9-1.10) Give the full form.		
1.1	Project Life Span	**2**	**CO1**
1.2	Authority	**2**	**CO1**
1.3	Network	**2**	**CO1**
1.4	Payback period	**2**	**CO1**
1.5	Force Majeure	**2**	**CO1**
1.6	PMBOK	**2**	**CO1**
1.7	EIA	**2**	**CO1**
1.8	WACC	**2**	**CO1**
1.9	WBS	**2**	**CO1**
1.10	EPC Project	**2**	**CO1**

SECTION B
4Qx5M= 20 Marks

2.1	Project Charter vs. Project Manual	**5**	CO2
2.2	Discounted vs. Non-Discounted Cash Flow Techniques of Project Appraisal	**5**	CO2
2.3	Financial Cost vs. Economic Cost	**5**	CO2
2.4	CPM vs. PERT	**5**	CO2

SECTION-C
3Qx10M=30 Marks

3.1	The initial investment in a project is Rs. 1 Crore and projected to generate cash flows of Rs. 10 Lakhs, Rs. 20 Lakhs, Rs. 30 Lakhs, Rs. 40 Lakhs & Rs. 50 Lakhs at the end of each year for next 5 years. If the cost of capital is 10%, should the project be accepted?	**10**	**CO3**
3.2	Explain the working and suitability of a Matrix organization for executing projects.	**10**	**CO3**
3.3	How can transportation and infrastructure projects improve the logistics & supply chain efficiency? Explain with contemporary projects ongoing in India.	**10**	**CO3**

SECTION-D
2Qx15M= 30 Marks

4.1 A project consists of 12 activities whose precedence relationships and their time estimates are shown as follows: — **15** — **CO4**

ACTIVITY		A	B	C	D	E	F	G	H	I	J	K	L
Immediate Predecessor(s)		-	-	-	A	A	B,E	C	C	D	F,G	H	K
Time Estimates	Optimistic (a)	4	2	5	8	4	5	5	6	7	8	2	4
	Most likely (m)	6	3	5	10	5	6	8	8	7	10	3	5
	Pessimistic (b)	8	4	5	12	6	7	11	10	13	12	4	6

a) Find the duration and variance of each activity.

b) Draw the project network.

c) Find the critical path & corresponding expected project completion time.

4.2 A project consists of following 8 activities, whose precedence relationships and time estimates are: — 15 — CO4

Activity	Immediate Predecessors	Duration (in Weeks)	Budget Cost of activity (Rs. Lakhs)
A	-	8	8
B	-	2	8
C	B	5	10
D	C	6	9
E	A	4	12
F	D,E	4	6
G	D,E	1	1
H	F	3	6
Project			60

1 Draw the network diagram and find critical path.
2 Draw the Gantt chart showing cost break-up.
3 Prepare the cost baseline.