Name: **Enrolment No:**	

UNIVERSITY OF PETROLEUM AND ENERGY STUDIES
End Semester Examination, May 2023

Course: Project Management & Contract Administration **Semester: II**
Program: MBA (LSCM) **Time: 03 Hrs.**
Course Code: LSCM 7026 **Max. Marks: 100**
Instructions: Usage of calculator and graph paper allowed.

SECTION A
10Qx2M = 20 Marks

S. No.		Marks	CO
Q 1	***Fill in the blanks. Each blank carries 2 marks.*.**		
1.1	A _____ is a graphical model depicting the interrelationship between the various elements of the Project Work System.	**2**	**CO1**
1.2	_____ involves monitoring and recording results of executing the quality activities to assess performance and recommend necessary changes.	**2**	**CO1**
1.3	_____ Reserves are not included in the project budget. (Choose the correct option: Management / Contingency)	**2**	**CO1**
1.4	_____ models are used to estimate how much the product (or project) will cost based on physical attributes e.g. weight, volume, power, lines of code, price per sq. foot	**2**	**CO1**
1.5	The overall project costs broken down into the various major heads like materials, labour, equipment etc. is known as _____.	**2**	**CO1**
1.6	A _____ is an agreement between two or more parties that is binding on all the parties.	**2**	**CO1**
1.7	The _____ is a structured log that maintains summary of all identified risks that can affect the project along with relevant information to manage the risk.	**2**	**CO1**
1.8	Project Risk is an uncertain event or condition that, if it occurs has a positive or negative effect on projects _____.	**2**	**CO1**
1.9	_____ integrates cost, schedule and scope and used to forecast future performance and project completion dates.	**2**	**CO1**
1.10	The _____ is a thorough examination of the management of project, its methodology and procedures, its records, its budgets and expenditures and degree of completion.	**2**	**CO1**

SECTION B
4Qx5M = 20 Marks

2.1	Explain in brief features/characteristics of project.	**5**	CO2
2.2	Discuss the role of Project Sponsor in project acceptance and approval.	**5**	CO2
2.3	Distinguish between project scope & product scope.	**5**	CO2
2.4	Give a brief overview of Project Management soft wares.	**5**	CO2

SECTION-C
3Qx10M = 30 Marks

3.1 The capital investment of Rs. 1 Crores for a project is sourced from following different sources:

Source	Amount (Rs.)	Cost
Equity capital	20 Lakhs	15%
Preference Capital	30 Lakhs	14%
Debentures	30 Lakhs	12%

Remaining capital requirement are met through term loans got at 10% interest rate.
The IRR of the project is 14%. Should the project be accepted or not?

10 **CO3**

3.2 How undertaking infrastructure & logistics projects (transportation & warehouse etc.) can improve the supply chain efficiency in India?

10 **CO3**

3.3 How we can identify, classify and manage project stakeholders?

10 **CO3**

SECTION-D
2Qx15M = 30 Marks

4.1 Consider the data of a project shown in the following table:

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

(i) Draw the network diagram and find critical path.
(ii) Draw the Gantt chart showing cost break-up.
(iii)Prepare the cumulative cost curve.

15 **CO4**

4.2 The progress status report of the same project at the end of given weeks is as follows:

Activity	% Work Completed	Actual cost
End of Week 5		
A	50	5
B	100	10
C	20	2
Others	0	0

Activity	% Work Completed	Actual cost
End of Week 20		
A	100	10
B	100	10
C	100	12
D	100	11

15 **CO4**

End of Week 10		
A	100	10
B	100	10
C	100	12
D	20	2
Others	0	0

End of Week 15		
A	100	10
B	100	10
C	100	12
D	100	11
E	100	15
Others	0	0

E	100	15
F	100	8
G	100	2
H	0	0

End of Week 22		
A	100	10
B	100	10
C	100	12
D	100	11
E	100	15
F	100	8
G	100	2
H	100	7

(i) Compute the Cost Variance at 5th, 10th, 15th, 20th & 22nd week and the Schedule Variance at 5th, 10th, 15th & 20th week.

(ii) Estimate cost at completion and time to completion on the basis of 5th, 10th, 15th & 20th week status.

(iii) Comment upon the effectiveness of the project monitoring system based on the changes in the above indicators over time.