Name: **Enrolment No:**	

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

Course: Project Management **Semester: V**
Program: B. Com. (Hons.)/BBA (Specialization: Finance)/Intgd. BBA+MBA **Time: 03 Hrs.**
Course Code: LSCM 3001 **Max. Marks: 100**
Instructions: Usage of calculator allowed.

SECTION A
10Qx2M=20Marks

S. No.		Marks	CO
	(1 to 6) **Fill in the blanks.** (7 to 10) **Choose the correct option.**		
Q 1	A _____ is a temporary endeavor undertaken to create a "unique" product, service, or result	**2**	**CO1**
Q 2	PMBOK stands for _____.	**2**	**CO1**
Q 3	The transition phase of the project life cycle is _____.	**2**	**CO1**
Q 4	The triple constraints of project management are - Time, Cost, and _____.	**2**	**CO1**
Q 5	The shape of time versus cumulative cost curve is _____.	**2**	**CO1**
Q 6	Acts of God, acts of government, and other causes such as strikes, war, sabotage, riots, flood, fire, earthquake, and epidemic are collectively termed as _____.	**2**	**CO1**
Q 7	What is the purpose of a work breakdown structure (WBS) in project management? a) Breaking down project deliverables into smaller, manageable components b) Tracking project costs c) Assigning tasks to project team members d) Monitoring project risks	**2**	**CO1**
Q 8	Which type of project management chart visually represents the project schedule, showing project activities' start and end dates? a) Gantt chart b) Fishbone diagram c) Ishikawa diagram d) Control chart	**2**	**CO1**
Q 9	The payback period is a time period _____. a) Over which the project will be getting operating cash inflows. b) A project takes to pay back the loan taken to purchase the capital assets. c) Equal to the useful life of the machines d) A project takes to recover its initial investment	**2**	**CO1**

<table>
<tr><td>Q 10</td><td>The focus of project environmental feasibility analysis is/are:
a) Environmental damages from project
b) Restoration & control measures
c) Both
d) None of them</td><td>2</td><td>CO1</td></tr>
<tr><td colspan="4">SECTION B
4Qx5M= 20 Marks</td></tr>
<tr><td>Q 11</td><td>Classify brownfield and greenfield projects.</td><td>5</td><td>CO2</td></tr>
<tr><td>Q 12</td><td>Distinguish between project manual and project charter, elaborate.</td><td>5</td><td>CO2</td></tr>
<tr><td>Q 13</td><td>Differentiate between financial cost & economic cost, with examples.</td><td>5</td><td>CO2</td></tr>
<tr><td>Q 14</td><td>Compare and contrast CPM and PERT.</td><td>5</td><td>CO2</td></tr>
<tr><td colspan="4">SECTION-C
3Qx10M=30 Marks</td></tr>
<tr><td>Q 15</td><td>Explain the delegation process in the context of project execution. How are authority, accountability, and responsibility established in delegation?</td><td>10</td><td>CO3</td></tr>
<tr><td>Q 16</td><td>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 respectively at the end of each year for the next 5 years. If the cost of capital is 12%, should the project be accepted?</td><td>10</td><td>CO3</td></tr>
<tr><td>Q 17</td><td>Give an overview of IT tools & software available for Project management.</td><td>10</td><td>CO3</td></tr>
<tr><td colspan="4">SECTION-D
2Qx15M= 30 Marks</td></tr>
<tr><td>Q 18</td><td>
<table>
<tr><th>Activity</th><th>Description</th><th>Immediate Predecessors</th><th>Duration (Weeks)</th><th>Total Cost Rs. ‘000</th></tr>
<tr><td>H</td><td>Basic design</td><td>-</td><td>10</td><td>100</td></tr>
<tr><td>I</td><td>Hardware design for A</td><td>H</td><td>8</td><td>64</td></tr>
<tr><td>J</td><td>Hardware design for B</td><td>H</td><td>6</td><td>96</td></tr>
<tr><td>K</td><td>Drawings for B</td><td>J</td><td>4</td><td>16</td></tr>
<tr><td>L</td><td>Software specifications</td><td>J</td><td>2</td><td>36</td></tr>
<tr><td>M</td><td>Parts purchase for B</td><td>J</td><td>4</td><td>84</td></tr>
<tr><td>N</td><td>Parts purchase for A</td><td>I</td><td>4</td><td>80</td></tr>
<tr><td>O</td><td>Drawings for A</td><td>I</td><td>5</td><td>50</td></tr>
<tr><td>P</td><td>Installation drawings</td><td>I,J</td><td>5</td><td>60</td></tr>
<tr><td>Q</td><td>Software purchases</td><td>L</td><td>5</td><td>80</td></tr>
<tr><td>R</td><td>Delivery of parts for B</td><td>M</td><td>5</td><td>0</td></tr>
<tr><td>S</td><td>Delivery of parts for A</td><td>N</td><td>3</td><td>0</td></tr>
<tr><td>T</td><td>Software delivery</td><td>Q</td><td>3</td><td>0</td></tr>
<tr><td>U</td><td>Assembly of A</td><td>O,S</td><td>1</td><td>14</td></tr>
<tr><td>V</td><td>Assembly of B</td><td>K,R</td><td>5</td><td>80</td></tr>
<tr><td>W</td><td>Test A</td><td>U</td><td>2</td><td>24</td></tr>
<tr><td>X</td><td>Test B</td><td>V</td><td>3</td><td>36</td></tr>
<tr><td>Y</td><td>Final Installation</td><td>P,W,X</td><td>8</td><td>104</td></tr>
<tr><td>Z</td><td>Final system test</td><td>Y,T</td><td>6</td><td>66</td></tr>
</table>
</td><td>15</td><td>CO4</td></tr>
</table>

	Draw the project network diagram and find the critical path and completion time.		
Q 19	Plan the construction with a Gantt chart and draw the cost baseline for this project.	**15**	**CO4**