Name: **Enrolment No:**	

UPES
End Semester Examination, May 2025

Course: Project Management **Semester: VI**
Program: BBA_LLB (ALL) **Time : 03 hrs.**
Course Code: LSCM3001 **Max. Marks: 100**

Instructions: The students are allowed to use calculators.

SECTION A
(5Qx2M=10Marks)

S. No.	All questions are compulsory (Short answer types)	Marks	CO
Q 1	Define the primary goal of project management.	**2**	**CO1**
Q 2	Explain the purpose of the project auditing.	**2**	**CO1**
Q 3	Define the first step in the project management process.	**2**	**CO1**
Q 4	Who is responsible for project planning?	**2**	**CO1**
Q 5	Describe the common methods of project scheduling.	**2**	**CO1**

SECTION B
(4Qx5M= 20 Marks)

	All questions are compulsory		
Q 6	Discuss the key challenges faced by a project manager.	**5**	**CO2**
Q 7	Explain the totally projectized organizational structure with suitable examples.	**5**	**CO2**
Q 8	Explain the various time estimates considered in calculating the estimated completion time of a project.	**5**	**CO2**
Q 9	Discuss the role of a contractor in project contracts.	**5**	**CO2**

SECTION-C
(2Qx10M=20 Marks)

Q 10	Estimate the construction cost of a project to be constructed now of capacity (constructed area) of 1500 square feet at new location (location index = 155); given that the construction cost of a similar project constructed at a location (with location index = 105) of constructed area 900 square feet was Rs. 5 Crores, which was constructed in 2012. (Cost index (2025) = 2108 Cost index (2010) = 1278. Using (a) Investment per Annual tonne Capacity Method (b) Six-tenth Factor Method	**10**	**CO3**

<table>
<tr><td>Q 11</td><td>Explain the significance of project monitoring and control in law projects.</td><td>10</td><td>CO3</td></tr>
<tr><td colspan="4">SECTION-D
(2Qx25M=50 Marks)</td></tr>
<tr><td>Q 12</td><td>The activities required to be done in the project, their precedence relationship, the activity time, and the percentage of total cost are given below.
<table>
<tr><th>Activity</th><th>Precedence</th><th>Duration (Weeks)</th><th>Total cost (Rs. ‘Lakhs’)</th></tr>
<tr><td>A</td><td>-</td><td>8</td><td>8</td></tr>
<tr><td>B</td><td>-</td><td>2</td><td>8</td></tr>
<tr><td>C</td><td>B</td><td>5</td><td>10</td></tr>
<tr><td>D</td><td>C</td><td>6</td><td>9</td></tr>
<tr><td>E</td><td>A</td><td>4</td><td>12</td></tr>
<tr><td>F</td><td>D, E</td><td>4</td><td>6</td></tr>
<tr><td>G</td><td>D, E</td><td>1</td><td>1</td></tr>
<tr><td>H</td><td>F</td><td>3</td><td>6</td></tr>
</table>
a) Prepare the construction schedule with a Gantt chart,
b) Draw the time-phased cumulative cost curve for this project.</td><td>25</td><td>CO4</td></tr>
<tr><td>Q 13</td><td>International Capital, Inc. (IC), is a small investment banking firm that specializes in securing funds for small to medium-sized firms. IC is able to use a standardized project format for each engagement. Only activity times and unusual circumstances change the standard network. Beth Brown has been assigned to this client as a project manager partner and has compiled the network information, activity times, and various time estimates for the latest client as follows:
<table>
<tr><td>Activity</td><td>A</td><td>B</td><td>C</td><td>D</td><td>E</td><td>F</td><td>G</td><td>H</td><td>I</td><td>J</td><td>K</td></tr>
<tr><td>Predecessor(s)</td><td>-</td><td>-</td><td>A, B</td><td>C</td><td>C</td><td>E</td><td>C</td><td>D, F, G</td><td>G, F</td><td>H</td><td>I, J</td></tr>
<tr><td>Optimistic time</td><td>4</td><td>2</td><td>2</td><td>16</td><td>6</td><td>1</td><td>4</td><td>2</td><td>5</td><td>2</td><td>17</td></tr>
<tr><td>Most Likely time</td><td>7</td><td>4</td><td>5</td><td>19</td><td>9</td><td>7</td><td>10</td><td>5</td><td>8</td><td>5</td><td>19</td></tr>
<tr><td>Pessimistic</td><td>10</td><td>8</td><td>8</td><td>28</td><td>24</td><td>13</td><td>28</td><td>14</td><td>17</td><td>8</td><td>45</td></tr>
</table>
a) Draw the PERT network to help Beth Brown in managing the project
b) Find the critical path and corresponding expected project completion time.
c) Calculate the probability that the project will be completed in 70 days.</td><td>25</td><td>CO4</td></tr>
</table>