PVP 20

Code: 20HS7701G

IV B.Tech - I Semester – Regular / Supplementary Examinations
OCTOBER 2024

PROJECT MANAGEMENT
(Common for ALL BRANCHES)

Duration: 3 hours Max. Marks: 70

Note: 1. This paper contains questions from 5 units of Syllabus. Each unit carries 14 marks and have an internal choice of Questions.
2. All parts of Question must be answered in one place.

BL – Blooms Level CO – Course Outcome

			BL	CO	Max. Marks
UNIT-I					
1	a)	Summarize project and explain various characteristics of project.	L2	CO1	7 M
	b)	Discuss the elements of project life-cycle.	L2	CO1	7 M
OR					
2	a)	Briefly explain project family tree and project appraisal.	L2	CO1	7 M
	b)	Describe the roles and responsibilities of project manager.	L2	CO1	7 M
UNIT-II					
3	a)	Discuss the analysis of project risks.	L2	CO2	7 M
	b)	Describe various types of market risks.	L2	CO2	7 M
OR					
4	a)	Describe the analysis of market risks.	L2	CO2	7 M
	b)	Discuss various types of firm risks.	L2	CO2	7 M

<table>
<tr><td colspan="6">UNIT-III</td></tr>
<tr><td rowspan="2">5</td><td>a)</td><td>Discuss the procedure for social cost-benefit analysis.</td><td>L2</td><td>CO3</td><td>7 M</td></tr>
<tr><td>b)</td><td>Explain UNIDO approach used in cost-benefit analysis.</td><td>L2</td><td>CO3</td><td>7 M</td></tr>
<tr><td colspan="6">OR</td></tr>
<tr><td rowspan="2">6</td><td>a)</td><td>Discuss the main features of social cost-benefit analysis.</td><td>L2</td><td>CO3</td><td>7 M</td></tr>
<tr><td>b)</td><td>Explain Little--Mirrless approach used in cost- benefit analysis.</td><td>L2</td><td>CO3</td><td>7 M</td></tr>
<tr><td colspan="6">UNIT-IV</td></tr>
<tr><td rowspan="2">7</td><td>a)</td><td>Define: optimistic time, pessimistic time and most likely time.</td><td>L1</td><td>CO1</td><td>6 M</td></tr>
<tr><td>b)</td><td>A project comprises of nine activities. The activity durations and their inter-relationships are presented in the table shown below.
<table>
<tr><th>Activity</th><th>Duration</th><th>Predecessor</th></tr>
<tr><td>A</td><td>8</td><td>None</td></tr>
<tr><td>B</td><td>10</td><td>None</td></tr>
<tr><td>C</td><td>9</td><td>None</td></tr>
<tr><td>D</td><td>6</td><td>A</td></tr>
<tr><td>E</td><td>8</td><td>B</td></tr>
<tr><td>F</td><td>16</td><td>B</td></tr>
<tr><td>G</td><td>14</td><td>C</td></tr>
<tr><td>H</td><td>11</td><td>D, E</td></tr>
<tr><td>I</td><td>4</td><td>G</td></tr>
</table>
(i) Draw the Network diagram.
(ii) Determine the critical path and project completion time.</td><td>L3</td><td>CO4</td><td>8 M</td></tr>
</table>

<table>
<tr><td colspan="6">OR</td></tr>
<tr><td rowspan="2">8</td><td>a)</td><td>Explain the crashing procedure taking a suitable example.</td><td>L2</td><td>CO4</td><td>6 M</td></tr>
<tr><td>b)</td><td>Consider the following Project.
<table>
<tr><td rowspan="2">Activity</td><td colspan="3">Time in days</td></tr>
<tr><td>Optimistic</td><td>Most Likely</td><td>Pessimistic</td></tr>
<tr><td>1-2</td><td>8</td><td>10</td><td>18</td></tr>
<tr><td>1-3</td><td>13</td><td>14</td><td>15</td></tr>
<tr><td>2-3</td><td>1</td><td>2</td><td>3</td></tr>
<tr><td>3-4</td><td>5</td><td>7</td><td>15</td></tr>
<tr><td>3-5</td><td>7</td><td>10</td><td>19</td></tr>
<tr><td>4-6</td><td>10</td><td>11</td><td>12</td></tr>
<tr><td>5-6</td><td>3</td><td>7</td><td>11</td></tr>
</table>
(i) Construct the Network diagram.
(ii) Determine the critical path.
(iii) Estimate the project completion time.
(iv) What is the probability of completing the project within 38 days?</td><td>L3</td><td>CO4</td><td>8 M</td></tr>
<tr><td colspan="6">UNIT-V</td></tr>
<tr><td rowspan="2">9</td><td>a)</td><td>Discuss the financial analysis of a project.</td><td>L2</td><td>CO5</td><td>7 M</td></tr>
<tr><td>b)</td><td>Discuss the environmental dimensions of a project.</td><td>L2</td><td>CO5</td><td>7 M</td></tr>
<tr><td colspan="6">OR</td></tr>
<tr><td rowspan="2">10</td><td>a)</td><td>Discuss the stresses on the environment.</td><td>L2</td><td>CO5</td><td>7 M</td></tr>
<tr><td>b)</td><td>Discuss the environmental impact assessment methodologies.</td><td>L2</td><td>CO5</td><td>7 M</td></tr>
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