CBCS SCHEME

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BCV501

Fifth Semester B.E./B.Tech. Degree Examination, Dec.2024/Jan.2025
Construction Management and Entrepreneurship

Time: 3 hrs. Max. Marks: 100

Note: 1. Answer any FIVE full questions, choosing ONE full question from each module.
2. M : Marks , L: Bloom's level , C: Course outcomes.

<table>
<tr><th colspan="3">Module – 1</th><th>M</th><th>L</th><th>C</th></tr>
<tr><td>Q.1</td><td>a.</td><td>Explain in detail construction project formulation.</td><td>10</td><td>L2</td><td>CO1</td></tr>
<tr><td></td><td>b.</td><td>The activity data of a project is given below:
<table>
<tr><th>Activity</th><th>Preceding activity</th><th>Duration (Days)</th></tr>
<tr><td>A</td><td>-</td><td>05</td></tr>
<tr><td>B</td><td>-</td><td>15</td></tr>
<tr><td>C</td><td>-</td><td>09</td></tr>
<tr><td>D</td><td>A</td><td>06</td></tr>
<tr><td>E</td><td>C</td><td>04</td></tr>
</table>
Draw the network diagram, identify the critical path, project duration and free float.</td><td>10</td><td>L3</td><td>CO1</td></tr>
<tr><td colspan="6">OR</td></tr>
<tr><td>Q.2</td><td>a.</td><td>What is Work Breakdown Structure (WBS)? Mention its significance in construction project.</td><td>10</td><td>L2</td><td>CO1</td></tr>
<tr><td></td><td>b.</td><td>Below given table pertains to the list of activities and their time estimates of a job:
<table>
<tr><th>Activity</th><th>Event</th><th>Optimistic time (days)</th><th>Most likely time (days)</th><th>Pessimistic time (days)</th></tr>
<tr><td>A</td><td>1 – 2</td><td>3</td><td>7</td><td>10</td></tr>
<tr><td>B</td><td>1 – 3</td><td>4</td><td>8</td><td>13</td></tr>
<tr><td>C</td><td>2 – 4</td><td>2</td><td>2</td><td>07</td></tr>
<tr><td>D</td><td>3 – 4</td><td>5</td><td>8</td><td>10</td></tr>
</table>
Draw the network and critical path. What is the expected completion time with the probability of 85%? (Take probability factor Z = 1.038)</td><td>10</td><td>L3</td><td>CO1</td></tr>
<tr><td colspan="6">Module – 2</td></tr>
<tr><td>Q.3</td><td>a.</td><td>Discuss on Class of Labour. What are the key factors of minimum wages act 1948?</td><td>10</td><td>L2</td><td>CO2</td></tr>
<tr><td></td><td>b.</td><td>List the factors affecting Labour productivity? Briefly discuss any three factors.</td><td>10</td><td>L2</td><td>CO2</td></tr>
<tr><td colspan="6">OR</td></tr>
<tr><td>Q.4</td><td>a.</td><td>Enumerate the factors to be considered for selection of Construction Equipment.</td><td>10</td><td>L2</td><td>CO2</td></tr>
<tr><td></td><td>b.</td><td>Explain material management and inventory management.</td><td>10</td><td>L2</td><td>CO2</td></tr>
<tr><td colspan="6">Module – 3</td></tr>
<tr><td>Q.5</td><td>a.</td><td>Explain types of procurement and procurement planning.</td><td>10</td><td>L2</td><td>CO3</td></tr>
<tr><td></td><td>b.</td><td>Explain the sustainable procurement management.</td><td>10</td><td>L2</td><td>CO3</td></tr>
<tr><td colspan="6">OR</td></tr>
<tr><td>Q.6</td><td>a.</td><td>Explain the different types of construction contracts.</td><td>10</td><td>L2</td><td>CO3</td></tr>
<tr><td></td><td>b.</td><td>Define contractor and subcontractor. Explain the effective sub contractor management.</td><td>10</td><td>L2</td><td>CO3</td></tr>
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Module – 4					
Q.7	**a.**	Explain the process of construction project quality management.	**10**	**L2**	**CO4**
	b.	Explain the safety measures adopted during construction.	**10**	**L2**	**CO4**
OR					
Q.8	**a.**	Explain Safety Management and Risk Management.	**10**	**L2**	**CO4**
	b.	Explain the terms: i) Facilities Management ii) Occupancy certificate	**10**	**L2**	**CO4**
Module – 5					
Q.9	**a.**	Explain the different characteristics of a Successful Entrepreneur.	**10**	**L2**	**CO5**
	b.	Explain 5M model and communication skills.	**10**	**L2**	**CO5**
OR					
Q.10	**a.**	Explain the Business Planning process, Marketing Plan and Financial Plan.	**10**	**L2**	**CO5**
	b.	Explain the role and significance of venture capital.	**10**	**L2**	**CO5**

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