

**SEE –Model Theory Question Paper - 2****CODE: 20PM01T****II Semester Diploma Examinations  
PROJECT MANAGEMENT SKILLS****Time: 3 Hours]****[Max Marks: 100**

<b>Note:</b> i) Answer any <i>SIX</i> questions from Section – 1. Each question carries 5 marks. ii) Answer any <i>SEVEN</i> full questions from Section- 2. Each question carries 10 marks.		
<b>Q No</b>	<b>Questions</b>	<b>Marks</b>
<b>Section -1</b>		
1	Define Project. List any 3 features of a project.	5
2	List and explain the types of consultants.	5
3	Identify any five advantages of effective team.	5
4	Define project administration and list any 3 tools used in project administration.	5
5	Explain Project Life Cycle curve with neat diagram	5
6	Write any 3 advantages and 2 disadvantages of Network techniques	5
7	Explain three time estimates used for project planning.	5
8	What is CPM? Write any 3 objectives of CPM	5
9	Write a note on smart city project.	5
<b>Section -2</b>		
10	a. List any 5 Obstacles in Project management. b. Write a note on Initial review in a project.	5 5
11	List the types of project teams. Explain any 3 project teams	10
12	a. Develop a Work breakdown structure for the birthday celebration using the following first level activities as Invitation, Food, Shopping. b. Write a short note on Project Procedure Manual	6 4
13	a. XYZ company is supposed to develop a customized two wheelers for a customer. Identify and explain different types of risks involved in the project. b. Discuss the Project closure phase in Project Life Cycle.	7 3
14	a. A Logistic company was planned to deliver the goods within 3 days. However, it took 5 days. State the possible reasons for delaying the delivery of goods b. Write a short note on Cost Overrun.	7 3
15	a. Construct Gantt chart for the following.	6

	<table><tr><th>Jobs</th><th>Start time</th><th>Duration</th><th>Manpower</th></tr><tr><td>1</td><td>0</td><td>5</td><td>8</td></tr><tr><td>2</td><td>1</td><td>3</td><td>7</td></tr><tr><td>3</td><td>4</td><td>4</td><td>6</td></tr><tr><td>4</td><td>8</td><td>6</td><td>3</td></tr></table>	Jobs	Start time	Duration	Manpower	1	0	5	8	2	1	3	7	3	4	4	6	4	8	6	3																										
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	b. Draw the structure of Project Planning.	4																																													
16	a. Determine the expected time for the following activities. <table><tr><th rowspan="2">Activity</th><th colspan="3">Time estimate</th></tr><tr><th>t<sub>0</sub></th><th>t<sub>m</sub></th><th>t<sub>p</sub></th></tr><tr><td>1 – 2</td><td>9</td><td>12</td><td>21</td></tr><tr><td>1 – 3</td><td>6</td><td>12</td><td>18</td></tr><tr><td>2 – 4</td><td>1</td><td>1.5</td><td>5</td></tr><tr><td>3 – 4</td><td>4</td><td>8.5</td><td>10</td></tr><tr><td>2 – 5</td><td>10</td><td>14</td><td>24</td></tr><tr><td>4 – 5</td><td>1</td><td>2</td><td>3</td></tr></table>	Activity	Time estimate			t <sub>0</sub>	t <sub>m</sub>	t <sub>p</sub>	1 – 2	9	12	21	1 – 3	6	12	18	2 – 4	1	1.5	5	3 – 4	4	8.5	10	2 – 5	10	14	24	4 – 5	1	2	3	6														
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	b. Write any 4 purpose of Project Scheduling.	4																																													
17	a. Construct the Network diagram and find the Critical path for the following data <table><tr><th>Task</th><th>Predecessor(s)</th><th>Duration (days)</th></tr><tr><td>A</td><td>None</td><td>1</td></tr><tr><td>B</td><td>None</td><td>1</td></tr><tr><td>C</td><td>A</td><td>5</td></tr><tr><td>D</td><td>B</td><td>1</td></tr><tr><td>E</td><td>B</td><td>1</td></tr><tr><td>F</td><td>D</td><td>6</td></tr><tr><td>G</td><td>E</td><td>4</td></tr><tr><td>H</td><td>F</td><td>2</td></tr><tr><td>I</td><td>G</td><td>1</td></tr><tr><td>J</td><td>G</td><td>1</td></tr><tr><td>K</td><td>I</td><td>3</td></tr><tr><td>L</td><td>J</td><td>3</td></tr><tr><td>M</td><td>C</td><td>1</td></tr><tr><td>N</td><td>M</td><td>1</td></tr></table>	Task	Predecessor(s)	Duration (days)	A	None	1	B	None	1	C	A	5	D	B	1	E	B	1	F	D	6	G	E	4	H	F	2	I	G	1	J	G	1	K	I	3	L	J	3	M	C	1	N	M	1	10
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18	a. Explain Milestone chart in Project Control. b. Write any 5 objectives of project Audit.	5 5																																													
19	a. Write any 5 applications of AR and VR technologies. b. Write any 5 benefits of IoT	5 5																																													