

Register Number 

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Code: 20PM01T

II Semester Diploma Examination, May-2024

**PROJECT MANAGEMENT SKILLS**

Time: 3 Hours

Max.Marks:100

- Instruction: (i) Answer any **ONE** full question from each section.  
(ii) Each full questions carries **20** Marks.

**SECTION-I**

- 1). (a). Define project and mention any 4 projects you see in daily life. 6  
(b). List the different types of Projects and Explain Normal Project. 6  
(c). Define internet of things (IOT) 3  
(d). State the benefits of AR and VR in Project Management. 5
- 2). (a). List and explain the types of Project consultants. 6  
(b).State the characteristics of Project Manager. 4  
(c). Differenciate between Augmented reality and virtual reality 5  
(d). List the application of AR and VR 5

**SECTION-II**

3. (a). Identify any four advantages of effective team. 4  
(b). Define project team.? List any 4 different types of Project team 6  
(c). Explain project execution plan (PEP) and project procedure manual (PPM) 10
4. (a). What is a Project Dairy and state its advantages 4  
(b). Prepare detailed work breakdown structure (WBS) for celebrating Republic day in your polytechnic. 6  
(c). Prepare a list of Project resources needed for construction of residential building. 5  
(d). State the factors to be considered while selecting the team members. 5

**SECTION-III**

- 5). (a). List the different types of risk assessment techniques. 4  
(b). A Hostel construction project was planned with estimated time duration of 20 months. However, the project took 28 months for its completion. Evaluate the possible reasons for delay in the project. 5  
(c). List and explain the different phases of project management lifecycle. 8  
(d). List any three components of project Planning 3
- 6). (a). List the reasons of cost overrun. 4  
(b). Explain the different types of project risk. 8  
(c). State the prerequisites for any successful project implementation. 4  
(d). Explain the neat sketch the project life cycle curve. 4

#### SECTION-IV

- 7). (a). State the importance of project evaluation . 5  
 (b). Describe the functions of project planning 5  
 (c). Explain time estimate. 5  
 (d). Develop the Gantt chart for the given project. 5

Jobs	Start Day	Duration	Manpower
J1	0	3	7
J2	2	4	3
J3	4	7	8
J4	8	5	2
J5	11	5	4

- 8). (a). List the tools used in project planning. 4  
 (b). Mention the various steps involved in any project review. 6  
 (c). Explain the different types of time estimate. 8  
 (d). List any four tools available for project planning. 2

#### SECTION-V

- 9). (a). Develop the network diagram for the following activities with the corresponding time estimates. 10

Activity	Time estimate		
	T <sub>0</sub>	T <sub>m</sub>	T <sub>p</sub>
1 - 2	8	12	21
1 - 3	6	12	18
2 - 4	1	1.5	3
3 - 4	4	8	9
2 - 5	10	14	23
4 - 5	2	2	3

- (b). Construct a network diagram and find the critical path for a project whose activities and their predecessor relationship are given below: 10

Activity	A	B	C	D	E	F	G	H
Predecessor	-	A	A	B	C	C	DE	FG

- 10). (a). State the purpose of project control. 4  
 (b). Explain the application of critical path method (CPM) in project management. 6  
 (c). List the objectives of project audit. 5  
 (d). List the objectives of project review. 5