1026

Code : 20PM01T

PROJECT MANAGEMENT SKILLS

Time : 3 Hours]   **[Max. Marks : 100**

Instructions :
- (i) Answer any **one** full question from each Section – I, II, III, IV and V.
- (ii) Each one full question carries **20** marks.
- (iii) Answer to be specific and to the point.

SECTION – I

1. (a) Define project and list any three characteristics of project.   **5**

   (b) Describe function of Job consultant.   **5**

   (c) Discuss the applications of Internet of Things (IoT).   **5**

   (d) Differentiate AR and VR in Project Management. (Virtual and Augmented Reality)   **5**

2. (a) List any five features of a project.   **5**

   (b) List obstacles in Project Management.   **5**

   (c) Discuss the applications of cloud technology.   **5**

   (d) List the uses of IoT in Project Management.   **5**

SECTION – II

3. (a) Explain Project Execution system.   **4**

   (b) Explain importance of communication in Project Management.   **5**

   (c) List the factors to be considered while selecting team members.   **5**

   (d) Develop work breakdown structure for manufacturing of LED television.   **6**

4. (a) Explain Project Execution Plan. 4

(b) Describe Pre-requisites for project implementation. 5

(c) List the different types of Project Team and explain any two Project Team. 5

(d) Develop a work breakdown structure for construction of college building. 6

SECTION – III

5. (a) What are the phases of Project Life Cycle ? Explain any one. 6

(b) What is Risk Management ? Explain Risk Management Process. 6

(c) The installation of water purifying plant project was planned to implement with estimated budget of 8 lakhs, it was found that after completion total cost was 12 lakhs. Analyse the possible reasons for the increase in the cost of the project and show it in the cost overrun table with itemwise. 8

6. (a) With neat diagram explain project life cycle curve. 5

(b) Define Project Risk. List the types of Project Risks. 6

(c) The electric vehicle manufacturing project was planned with estimated time duration of 80 days; however the project took 90 days for its completion. Evaluate possible reasons for the delay in the project and show it in time overrun table with itemwise. 9

SECTION – IV

7. (a) List the tools for project planning and explain any one. 6

(b) Explain Project Planning Structure. 6

(c) The bus manufacturing company produces Hi-tech sleeper AC bus, show the different activities schedule in the Gantt chart. 8

8. (a) What are the challenges in Project Monitoring and Evaluation ? 6

(b) State characteristics of Project goals or object. 6

(c) The manufacturing company produces desktop computers, show the different activities schedule in the network chart. 8

SECTION – V

9. (a) List any five purpose of Project Control.   **5**

   (b) Differentiate CPM and PERT.   **5**

   (c) The following activities involved as shown in the table below, estimate time for each activity. Draw the PERT Network, determine total time required for completion of project and find the critical path.   **10**

   Table : 1

Activities	T_o	T_m	T_p
1 – 2	7	8	9
2 – 3	11	12	13
2 – 4	5	6	7
3 – 5	6	7	8
4 – 5	3	4	5
5 – 6	2	3	4

10. (a) List five objectives of Project Review.   **5**

    (b) State the objectives of Project Audit.   **5**

    (c) Construct the network diagram whose activities and their predecessor relationship is given in below table. Determine the total time required for completion of project and find the critical path.   **10**

    Table : 2

Activity	A	B	C	D	E	F
Predecessor	–	A	A	B	C	D, E
Time	13	12	2	8	15	2

[Turn over