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II Semester Diploma Examination, March/April-2022

## PROJECT MANAGEMENT SKILLS

Time : 3 Hours ]

[ Max. Marks : 100

- Instructions :**
- (1) Answer all the sections.
  - (2) Sections I and VI carries 10 marks each.
  - (3) Sections II, III, IV and V carries 20 marks each.

### SECTION – I

1. (a) Define project and mention any two projects you see in daily life. 2  
**OR**  
Mention any two features of a project.
- (b) Define the meaning of project management. 2  
**OR**  
List the different types of projects.
- (c) Explain the role of project manager. 3  
**OR**  
Explain the role of projects consultants.
- (d) Describe the project management process. 3  
**OR**  
Analyse the difference between project and operation.

### SECTION – II

2. (a) Define project administration and mention any two tools used in project administrative system. 4  
**OR**  
Mention the types of project teams and write atleast two advantages of effective team.
- (b) Explain the use of project design concept in any project and discuss the steps involved in it. 6  
**OR**  
Describe the use of Project Procedure Manual (PPM) and Project Execution Plan (PEP) for the successful implementation of the project.



- (c) Develop a Work Breakdown structure for the construction of a college building. 5

**OR**

Develop a Work Breakdown structure for the software development project.

- (d) Analyse the importance of communication in a project. 5

**OR**

Analyse the prerequisites for successful project implementation.

### SECTION – III

3. (a) List the different phases of project management life cycle. 4

**OR**

List any four components of project planning.

- (b) As a project manager, discuss the Cost management and Quality management. 6

**OR**

As a project manager, discuss the change management and procurement management.

- (c) Discuss the application of sensitivity analysis technique for the assessment of risk. 5

**OR**

Discuss the application of scenario analysis technique for the assessment of risk.

- (d) A state highway project was planned to implement with an estimated budget of 40 crores. However, after the completion of the project, it was found that the project total cost was 45 crores. Analyse the possible reasons for the increase in cost of the project. 5

**OR**

A shopping mall construction project was planned with an estimated time duration of 18 months. However, the project took 24 months for its completion. Evaluate the possible reasons for the delay in the project.



**SECTION – IV**

4. (a) Write the functions of project planning. 4  
**OR**  
 List the tools used for project planning.
- (b) Briefly explain time estimate and its components. 6  
**OR**  
 Describe situation analysis and mention atleast six techniques to collect information to conduct situation analysis.
- (c) Explain the application of “SMART” tool for setting goals and objectives. 5  
**OR**  
 Describe the application of Gantt chart for project planning.
- (d) Analyse the importance of project objectives and policies. 5  
**OR**  
 Analyse the importance of project evaluation.

**SECTION – V**

5. (a) List any four purposes of project control. 4  
**OR**  
 List any four objectives of project review.
- (b) Explain the project audit program. 6  
**OR**  
 Explain the two ways of conducting performance evaluation.
- (c) Explain the application of critical path method (CPM) in project management. 5  
**OR**  
 Explain the application of Program Evaluation and Review Technique (PERT) in project management.
- (d) Construct a network diagram for a project whose activities and their predecessor relationship are given below. 5

<b>Activity</b>	A	B	C	D	E	F	G	H	I	J	K
<b>Predecessor</b>	–	–	–	A	B	B	C	D	E	H, I	F, G

**OR****[Turn over**

Develop the network diagram for the following activities with corresponding time estimate.

Activity	Time estimate		
	$t_0$	$t_m$	$t_p$
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

SECTION - VI

6. (a) Discuss the application of cloud technology in project management. 5

OR

Discuss the application of Internet of Things (IoT) in project management.

(b) Discuss on how smart city projects can be developed using digital technologies. 5

OR

Discuss on how digital technologies can be used in Education.

