

GUJARAT TECHNOLOGICAL UNIVERSITY

BE- SEMESTER-VII (NEW) EXAMINATION – WINTER 2024

Subject Code:3171506

Date:22-11-2024

Subject Name: Project Management

Time:10:30 AM TO 01:00 PM

Total Marks:70

Instructions:

1. Attempt all questions.
2. Make suitable assumptions wherever necessary.
3. Figures to the right indicate full marks.
4. Simple and non-programmable scientific calculators are allowed.

- Q.1** (a) What is a project, and how does it differ from ongoing operations or general management activities? **03**
- (b) What are the three primary goals of any project, and why are they significant? **04**
- (c) Differentiate between project management and general management, highlighting their unique characteristics and objectives. **07**
- Q.2** (a) List the steps involved in the planning process of a project. **03**
- (b) Describe the importance of defining project objectives and scope in a project plan. **04**
- (c) What are the primary roles and responsibilities of a project manager in a typical project? Explain how a project manager's roles may change throughout the various stages of a project's life cycle. **07**
- OR**
- (c) Briefly explain Work Breakdown Structure (WBS), and how does it contribute to project planning? **07**
- Q.3** (a) What is risk management? **03**
- (b) What is project evaluation, and why is it important in project management? **04**
- (c) Describe the different methods of budgeting commonly used in project management and financial planning. **07**
- OR**
- Q.3** (a) Why is project termination an essential phase in project management? **03**
- (b) Describe the steps and methodologies involved in a project audit. **04**
- (c) Describe the concept of budget uncertainty in project management and how it can affect project success. **07**
- Q.4** (a) Describe the concept of resource leveling in project management and its importance. **03**
- (b) Define the concept of crashing the project network and its implications for project completion. **04**
- (c) Define PERT (Program Evaluation and Review Technique) and CPM (Critical Path Method) and their applications in project management. How are PERT and CPM networks used to represent project tasks and dependencies? **07**
- OR**
- Q.4** (a) Discuss the strategies for optimizing resource allocation across projects to maximize efficiency. **03**
- (b) What is Goldratt's critical chain in project management? **04**
- (c) Explain the Gantt chart and its purpose in project scheduling and visualization. Discuss the limitations of Gantt charts in representing complex project schedules. **07**

- Q.5** (a) Describe the importance of data collection and reporting in project management. **03**
- (b) Explain the considerations and steps involved in designing a project control system. **04**
- (c) What is project control, and why is it essential for managing projects effectively? Describe the techniques and tools commonly used for project control. **07**

OR

- Q.5** (a) Describe the techniques and tools commonly used for project control. **03**
- (b) How is earned value calculated, and what does it reveal about a project's status? **04**
- (c) Define scope creep in the context of project management. What is the purpose of change control processes in managing scope creep? **07**
