

Seat No./Enrollment No.: \_\_\_\_\_

**GUJARAT TECHNOLOGICAL UNIVERSITY**  
**MASTER OF ENGINEERING – SEMESTER 1 – EXAMINATION – SUMMER 2026**

**Subject Code: 3711408**

**Date: 09/06/2026**

**Subject Name: Planning, Scheduling & Control of Construction Projects**

**Time: 02:30 PM TO 05:00 PM**

**Total Marks: 70**

**Instructions:**

- 1. Attempt all questions.**
- 2. Make suitable assumptions wherever necessary.**
- 3. Figures to the right indicate full marks.**

- Q.1** (a) Explain the parameters that can lead a construction project to success. **07**  
(b) Define the Dummy activity? Explain the importance of Dummy during network preparation. **07**
- Q.2** (a) Enlist various types of Organization and explain any two in detail. **07**  
(b) Write Short note on: Cost Planing, Cost Budgeting and Cost Control. **07**  
OR
- Q.2** (b) What is Total quality management? Explain about quality circle and house of quality in detail. **07**
- Q.3** (a) Explain the relevance of Construction management in Project success. **07**  
(b) Explain in detail: Construction Project Life Cycle. **07**  
OR
- Q.3** (a) Write a short note on LOB. Explain the advantages of LOB. **07**  
(b) Explain in detail about Public Private Partnership. Also, Compare about BOOT and BOT. **07**
- Q.4** (a) Draw the WBS of (a) Bridge construction project (b) Construction of Dam. **07**  
(b) Write detailed short note on: (1) Benchmarking (2) FMEA. **07**  
OR
- Q.4** (a) Explain the importance of Updating in network. Why updating is required and when it need to be updated? **07**  
(b) Different between formal and informal organization. **07**
- Q.5** (a) Write a short note on: CONQUAS and PNA. **07**  
(b) Discuss the factors influencing Construction Quality. **07**  
OR
- Q.5** (a) Explain the impact of value engineering in cost validation **07**  
(b) Explain the importance of various management software for effective construction project management. **07**

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