

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VII (NEW) EXAMINATION – WINTER 2018****Subject Code: 2170611****Date: 15/11/2018****Subject Name: Infrastructure Engineering And 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.

- Q.1** (a) Explain in detail aims and objectives of project management. **03**
 (b) Define Infrastructure. Explain type of Infrastructure. **04**
 (c) Enlist the type of Project Organization and explain any one in detail. **07**
- Q.2** (a) Explain Project appraisal. **03**
 (b) Explain the planning process with a case study. **04**
 (c) What is life cycle analysis? What are the goals and purpose of life cycle analysis? **07**
- OR**
- Q.3** (c) Explain in brief screening of Project. **07**
 (a) Explain in detail role of management in project execution. **03**
 (b) Enlist and explain factors affecting project cash flow. **04**
 (c) What is work schedule? What are the purposes and objective of preparing work schedule? **07**
- OR**
- Q.3** (a) Write note on “Initial project costs and cost varying factors”. **03**
 (b) Describe source of Financing. **04**
 (c) Short Note: Regulatory Framework. **07**
- Q.4** (a) Explain in brief Risk for construction Project. **03**
 (b) What is the difference between Security Deposit and Earnest Money Deposit? **04**
 (c) Explain Tendering Process. **07**
- OR**
- Q.4** (a) What are the responsibilities of a construction manager? **03**
 (b) Explain the tools and techniques required for scope change control. **04**
 (c) Explain in detail different types of tender. **07**
- Q.5** (a) Explain Revocation of Tender. **03**
 (b) Explain Critical Path method (CPM). **04**
 (c) Explain points to be covered in tender document. **07**
- OR**
- Q.5** (a) Discuss Importance of Sectors covered under infrastructure. **03**
 (b) Give Overview of infrastructure development history in India. **04**
 (c) What is contract? Enlist types of contract and explain any one in detail with its advantages and Disadvantages. **07**
