

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VII (NEW) - EXAMINATION – SUMMER 2018

Subject Code:2170611

Date:28/04/2018

Subject Name: Infrastructure Engineering And Management

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) Define Infrastructure. Enlist hard and soft infrastructure. **03**
(b) What is the difference between Security Deposit and Earnest Money Deposit? **04**
(c) Explain in brief typical infrastructure planning steps. **07**
- Q.2** (a) What is project appraisal? **03**
(b) List out the points to be kept in mind while preparing tender document. **04**
(c) Discuss case study of any infrastructure project going on currently in India by giving technical and planning details. **07**
- OR**
- (c) Discuss sources of funding for a large scale construction projects. Draw typical cash flow profile on infrastructure project. **07**
- Q.3** (a) What is life cycle analysis? **03**
(b) Enlist different types of risk for any type of construction project and explain any one. **04**
(c) Explain the role of project manager in any construction project. **07**
- OR**
- Q.3** (a) What are the objectives of preparing work schedule? **03**
(b) Write a note on : Scrutiny of tender **04**
(c) Explain in detail procurement strategies in construction project. **07**
- Q.4** (a) What are the different types of project organisations. **03**
(b) What are the objectives of project management? **04**
(c) Discuss the various processes in project execution. **07**
- OR**
- Q.4** (a) Define: Contracts, CPM, PERT **03**
(b) Explain the requirements of valid contract as per Indian contract act. **04**
(c) Enlist various types of contracts and explain any two in detail. **07**
- Q.5** (a) Enlist different types of Tenders. **03**
(b) Draft the tender notice for any civil engineering construction work. **04**
(c) Prepare project development plan of any infrastructure project. **07**
- OR**
- Q.5** (a) What is work schedule? **03**
(b) What are desired results of preparing work schedule? **04**
(c) Explain in brief various project management processes. **07**
