

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER– VII (New) EXAMINATION – WINTER 2019****Subject Code: 2170611****Date: 23/11/2019****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) Discuss objectives of project management. **03**  
(b) What are the contractual disputes? **04**  
(c) What is Infrastructure? Explain in detail various phases of infrastructure. **07**

- Q.2** (a) Discuss the main organizational structure for large scale construction project. **03**  
(b) Why is scheduling important in project? **04**  
(c) Discuss case study of any typical infrastructure project giving technical and planning details. **07**

**OR**

- (c) Write a note on “Infrastructure development history in India”. **07**  
**Q.3** (a) Define project management. What is the need of project management? **03**  
(b) Enlist the different types of project organization. Explain any one. **04**  
(c) Explain the phases of project management. **07**

**OR**

- Q.3** (a) What do you understand by mind mapping? **03**  
(b) Discuss the common project management process interactions. **04**  
(c) Explain project integration management. Discuss various processes of project integration management. **07**
- Q.4** (a) Discuss project scope management in brief. **03**  
(b) What is work break down structure? Discuss in brief. **04**  
(c) Which are the project management process groups? Discuss any one group in detail. **07**

**OR**

- Q.4** (a) What is project appraisal? **03**  
(b) What is project charter? Discuss briefly. **04**  
(c) What is life cycle analysis? What are the goals and purposes of life cycle analysis? **07**
- Q.5** (a) Discuss types of Tenders. **03**  
(b) Discuss (i) Earnest money deposit and (ii) Security deposit. **04**  
(c) Explain in brief different types of risk involved in a large scale construction project. **07**

**OR**

- Q.5** (a) Discuss types of contract. **03**  
(b) Discuss scrutiny of tender. **04**  
(c) Explain in detail various sources of funding for large scale construction project. **07**

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