

GUJARAT TECHNOLOGICAL UNIVERSITY
BE – SEMESTER – VI (OLD).EXAMINATION – WINTER 2016

Subject Code: 161303**Date: 22/10/2016****Subject Name: Estimation, Specification & 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.

- Q.1** (a) Explain long wall and Short wall methods of estimate with example. **07**
(b) Define Specification. Also write objects, importance and use of specification. **07**
- Q.2** (a) Write down all eight steps involved in project planning. **07**
(b) Differentiate between CPM and PERT network. **07**
- OR**
- (b) Write conditions of contract for failure to complete the works in time. **07**
- Q.3** (a) Write a short note on Unit-price contract. **07**
(b) Write a short note on Unbalanced tender. **07**
- OR**
- Q.3** (a) Write a short note on Negotiated contract. **07**
(b) Write a short note on contractual dispute and arbitration. **07**
- Q.4** (a) What is Milestone chart? Differentiate between Milestone chart and Bar chart. **07**
(b) Prepare a tender notice inviting tenders for pH meter for an educational institute with estimated cost of Rs. 30,000/- max. **07**
- OR**
- Q.4** (a) Write detailed specification of white washing. **07**
(b) Explain Rubble Masonry in detail. **07**
- Q.5** (a) Write short note on Earnest money and Security deposit. **07**
(b) Prepare Rate analysis for cement concrete (1:2:4). **07**
- OR**
- Q.5** (a) From the following table, prepare a network diagram, decide the completion period and critical path. **14**

| Activity item | Duration Days | Activities immediately | |
|---------------|------------------|------------------------|------------|
| | | preceding | following |
| A | 8 | None | B, C |
| B | 10 | A | C, D, E, H |
| C | 7 | A, B | D |
| D | 4 | B, C | F, H |
| E | 2 | B | G, H |
| F | 9 | D | I |
| G | 12 | E | I |
| H | 1 | B, D, E | I |
| I | 5 | F, G, H | None |
