

**GUJARAT TECHNOLOGICAL UNIVERSITY****Diploma Engineering - SEMESTER-VIII • EXAMINATION – WINTER • 2016****Subject Code: 3385501****Date: 20-10-2016****Subject Name: CE&PM****Time: 10:30 am - 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.
4. Use of programmable & Communication aids are strictly prohibited.
5. Draw a neat sketch whenever necessary
6. English version is authentic.

- Q.1** (a) Describe Meaning of Administration, Management and Organization. **07**  
 (b) Give Classification of costs. Describe costing procedure. **07**

- Q.2** (a) Describe valuation Procedure of material issue from stores. **07**  
 (b) Describe Value and Cost. List five types of values. **07**

OR

- (b) What is depreciation? List methods for calculating depreciation and explain any ONE. **07**

- Q.3** (a) Differentiate between Costing and Estimation with suitable example. **07**  
 (b) Estimate the machining time to turn a M.S. bar of 4 cm dia. to 3 cm for a length of 5 cm in a single cut. Assume Cutting speed as 60 m/min. and Feed rate as 0.10 mm per rev. **07**

OR

- Q.3** (a) Enlist and Describe important operation carried out in sheet metal shop. **07**  
 (b) Find the time required to drill 6 holes in a flange each of dia. 1 cm × 2.5 cm depth. Assume cutting speed as 35 m/min and feed as 0.15 mm/ rev. **07**

- Q.4** (a) Describe Decision making for Choice of site location. **07**  
 (b) A small scale industrial unit consists of six activities as given below: **07**

| Activity      | A | B | C | D | E | F   |
|---------------|---|---|---|---|---|-----|
| Times in day  | 4 | 5 | 4 | 3 | 2 | 6   |
| Pre-operation | - | A | B | A | D | C,E |

Draw the network diagram and Calculate EST, LST, EFT, LFT, and Float, mark the critical path and find total project duration.

OR

- Q. 4** (a) List different types of Plant Layout. Describe any ONE of them. **07**  
 (b) Draw the network diagram for a given activities. Find Out Critical path and Calculate the critical time for project completion. Also calculate EST, LST, EFT, LFT, and Float. **07**

| Activity                     | A | B | C | D | E   | F |
|------------------------------|---|---|---|---|-----|---|
| Duration in Days             | 6 | 8 | 4 | 9 | 8   | 5 |
| Immediate preceding Activity | - | A | A | B | C,D | C |

- Q.5** (a) Describe ABC analysis with neat sketch. **07**  
 (b) Describe Product development procedure. **07**

OR

- Q.5** (a) Describe EOQ with neat sketch. **07**  
 (b) Describe JIT Modern Management Technique. **07**