

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER –VIII• EXAMINATION – SUMMER 2016

Subject Code: 385501

Date: 10/ 05/2016

Subject Name: Costing Estimation & 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.
4. Each question carry equal marks (14 marks)

- Q.1** (a) Describe Need, Scope & Importance of Costing Estimation and Management in Fabrication Industry. **07**
- (b) Write definition, aims and benefits of Value Analysis. **07**
- Q.2** (a) Describe Costing method. Explain Any TWO. **07**
- (b) Explain Following Term “Material Costing “ & “ Labour Costing”. **07**
- OR
- (b) Define the term “Costing”. Explain aims of Costing **07**
- Q.3** (a) List out types of Constituents of Estimation. Explain Any TWO. **07**
- (b) Estimate the machining time to turn a M.S. bar of 3 cm dia. to 2.5 cm for a length of 10 cm in a single cut. Assume Cutting speed as 30 m/min. and Feed rate as 0.4 mm per rev. **07**
- OR
- Q.3** (a) Define Term “Welding”. Explain factor affecting Welding Cost. **07**
- (b) Find the time required to drill 6 holes in a flange each of 1 cm depth, if the hole dia. is 1 ½ cm. Assume cutting speed as 20 m/min and feed as 0.02 cm/ rev. **07**
- Q.4** (a) Explain Factors affecting selection of Location. **07**
- (b) Draw CPM Network for given data and find the critical Path. **07**

Activity	Time in days	Pre-operation
A	5	None.
B	6	A
C	5	B
D	4	A
E	3	D
F	4	C,E

OR

- Q. 4** (a) Explain Types of Plant Lay out with Advantages and Limitation. **07**
- (b) Define Work Measurement. Explain Method of Work Measurement. **07**

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| Q.5 | (a) | Explain Process Selection in detail. | 07 |
| | (b) | Explain SIX SIGMA briefly. | 07 |
| OR | | | |
| Q.5 | (a) | Explain product design process in detail. | 07 |
| | (b) | List out SEVEN QC Tools. Describe any TWO with neat sketch. | 07 |
