

Seat No.: _____

Enrolment No. _____

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER – VIII-EXAMINATION – WINTER 2015

Subject Code: 385501

Date: 19/12/2015

Subject Name: Costing Estimation & Management

Time: 02:30 PM TO 5:00 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)
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- Q.1** (a) Describe THREE principle elements and explain them. **07**
(b) State and Describe meaning of Estimation and Costing in Fabrication Industry. **07**
- Q.2** (a) Draw graphical presentation of EOQ. Explain its stages. **07**
(b) Differentiate between Costing and Estimation with suitable example. **07**
- OR
- (b) State and Describe steps of Estimation with suitable example. **07**
- Q.3** (a) Prepare list of different qualities of an Estimation Engineer. Explain them. **07**
(b) Find the time required to drill 6 holes in a flange each of 1.3 cm depth, if the hole dia. is 01cm. Assume cutting speed as 30 m/min and feed as 0.1 mm/ rev. **07**
- OR
- Q.3** (a) Describe SEVEN qualities of an Estimation Engineer. **07**
(b) Estimate the machining time to turn a M.S. bar of 3 cm dia. to 2 cm for a length of 6 cm in a single cut. Assume Cutting speed as 60 m/min. and Feed rate as 0.10 mm per rev. **07**
- Q.4** (a) Calculate Arc Welding Cost for Joining TWO steel plates 250mm length having 06 mm Thickness by Single V Butt Joint. **07**
(b) State and Explain functions of Process Planning. **07**
- Q.4** (a) Prepare list of different material handling equipments. Explain Factors affecting selection of it. **07**
(b) Estimate time required for making an open tank of size 70×70×70 cm by Gas welding. Size of sheet used is 70×70×0.5 cm. Welding is to be done on inner sides only. Assume fatigue allowance 5% and Welding speed 10 min/m of welding. **07**
- Q.5** (a) Write brief note on KAIZEN. **07**
(b) Explain product design process in detail. **07**
- OR
- Q.5** (a) Write brief note on ISO-9000. **07**
(b) Write brief note on Quality Circle. **07**
