

GUJARAT TECHNOLOGICAL UNIVERSITY
DIPLOMA ENGINEERING – SEMESTER – 8th • EXAMINATION SUMMER • 2015

Subject Code: 385501**Date: 05-05-2015****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) State and Describe meaning of Estimation and Costing in Fabrication Industry. **07**
 (b) State and Explain different elements of Cost. **07**
- Q.2** (a) State and Describe steps of Estimation with suitable example. **07**
 (b) Draw graphical presentation of EOQ. Explain its stages. **07**
 OR
 (b) Differentiate between Costing and Estimation with suitable example. **07**
- Q.3** (a) Prepare list of different qualities of an Estimation Engineer. Explain them. **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**
 OR
Q.3 (a) Describe Function of PPC Department in Fabrication Industry. **07**
 (b) Find the time required to drill 8 holes in a flange each of dia. 1cm × 1.5 cm depth. Assume cutting speed as 35 m/min and feed as 0.15 mm/ rev. **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 80×80×80 cm by Gas welding. Size of sheet used is 80×80×0.5 cm. Welding is to be done on inner sides only. Assume fatigue allowance 5% and Welding speed 10 min/m of welding. **07**
 OR
Q.4 (a) Prepare sample process plan for Machining of a Cast Flange. State functions of Process Planning. **07**
 (b) Calculate Arc Welding Cost for Joining TWO steel plates 200mm length having 08 mm Thickness by Single V Butt Joint. **07**
- Q.5** (a) Define the term ÷ Value Analysisö. State its aims and benefits. **07**
 (b) Write brief note on KAIZEN. **07**
 OR
Q.5 (a) State and Explain meaning of product design and process selection. **07**
 (b) Write brief note on ISO-9000. **07**
