

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI • EXAMINATION – SUMMER 2013****Subject Code: 162505****Date: 04-06-2013****Subject Name: Estimating, Costing & Engineering Economics****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.

Q.1 (a) Define Estimation. Explain the importance of Estimating with Suitable Example. **07**

(b) Define Costing. Explain the difference between Estimating and Costing. **07**

Q.2 (a) Explain the classification of Cost according to Elements with example. **07**

(b) Explain the Constituents of Estimation **07**

OR

(b) Explain the Components of Cost. **07**

Q.3 (a) Define 'Mensuration'. Explain the role of Mensuration in Estimating and Costing with Suitable Example. **07**

(b) Write the equation for finding the Cutting Time for following Operation on The Lathe Machine **07**

(i) Turning & Knurling

(ii) Facing & Threading

(iii) Drilling & Boring

OR

Q.3 (a) A Container open on one side of size 0.5 x 0.5 x 1 m height is to be made from plates of 6 mm thickness. Take density of Plate metal as 8 gm/c.c. and joints are to be welded. **07**

Estimate the cost of containers from the following data:

Cost of Plate = Rs. 4.00/ Kg

Sheet Metal Scrap = 5% of Material

Cost of Labour = 10% of Material

Cost of Welding Material = Rs. 5 Per Meter weld

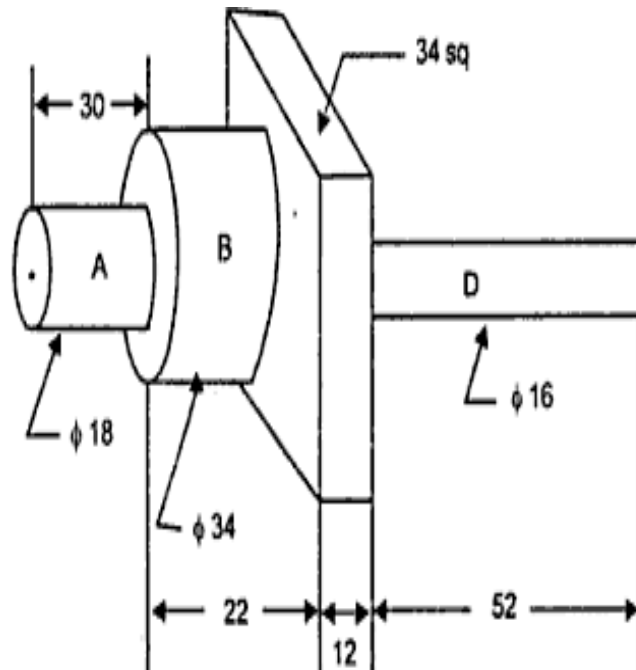
(b) Write the different types of Losses in Forging Shop. **07**

Q.4 (a) Write the Steps for Estimation in Oxy- Acetylene Welding Shop. **07**

(b) Write the Steps for Estimation of Pattern Cost. **07**

OR

Q.4 (a) Estimate the weight of C. I. used in Manufacturing the Product as shown in fig. Assume density of C. I. as 7.2 gm/cc. **07**



All dimensions are in mm.

(b) Explain the Factors affecting on Welding Cost. 07

Q.5 (a) Write Short-note on Economics of Size. 07

(b) List the Cost Reduction Techniques used in manufacturing industry. 07

OR

Q.5 (a) Write Short Note on Trade Cycle. 07

(b) Difference between Cost Control and Cost Reduction Techniques. 07
