

**GUJARAT TECHNOLOGICAL UNIVERSITY****BE - SEMESTER-VI (NEW) - EXAMINATION – SUMMER 2018****Subject Code:2162505****Date:03/05/2018****Subject Name:Estimating and Costing****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.

- Q.1** (a) Explain cost accounting. Give objective of cost accounting. **03**  
(b) Discuss various steps should be taken to control labour cost. **04**  
(c) Discuss various techniques of cost control. **07**
- Q.2** (a) Define mensuration. Give importance of mensuration. **03**  
(b) Explain methods to calculate areas of irregular figures. **04**  
(c) Discuss constituents of estimation. **07**
- OR**
- (c) Discuss step by step estimating procedure. **07**
- Q.3** (a) Give main aims of estimating. **03**  
(b) Discuss the main functions of an estimator. **04**  
(c) Enlist and explain any three methods of on cost allocation. **07**
- OR**
- Q.3** (a) Give advantages of efficient costing. **03**  
(b) Give the difference between estimating and costing. **04**  
(c) Write a note on how to control over material cost. **07**
- Q.4** (a) Give reasons for scrap. **03**  
(b) Give objective of labour costing. **04**  
(c) Discuss importance methods used for valuation of materials issued from stores. **07**
- OR**
- Q.4** (a) Discuss sources of errors in estimating. **03**  
(b) Define incentives. Explain non financial incentives. **04**  
(c) Define wages. Explain various types of wages. **07**
- Q.5** (a) Estimate the machining time to turn a M. S. bar of 30 mm diameter to down to 25 mm for a length of 100 mm in a single cut assume cutting speed 30 m/min and feed 0.4 mm/rev. **03**  
(b) Cylindrical drum of size 1.5 meter high and 1 meter mean diameter are to be fabricated from sheet of 5 mm thickness by grooved seam joint and both the covers should be joined with single seam joint. Calculate the material cost, if sheet is available at Rs. 150 per m<sup>2</sup>. **04**  
(c) Discuss various types of sheet metal joints with sketch. **07**
- OR**
- Q.5** (a) Enlist various cost included for estimation of arc welding. **03**  
(b) Discuss estimation of various losses in forging. **04**  
(c) Discuss estimation of pattern cost and estimation in foundry shop. **07**

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