

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI • EXAMINATION – WINTER • 2014****Subject Code: 162505****Date: 08-12-2014****Subject Name: Estimating, Costing and Engineering Economics****Time: 02:30 pm - 05:00 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) Enlist and explain constituents of estimation. **07**
(b) Write about qualities of an estimator. Discuss functions of an estimator. **07**
- Q.2** (a) Define costing. Give aims of costing. Write difference between estimating and costing. **07**
(b) Enlist important methods of on-cost allocation. Discuss any two of them. **07**
- OR**
- (b) Enlist and explain important methods of costing. Write advantages of efficient costing. **07**
- Q.3** (a) Discuss various ways to control over material cost. **07**
(b) Discuss important methods commonly used for valuation of materials issued from stores. **07**
- OR**
- Q.3** (a) Define wages. Discuss factors which influence wages. **07**
(b) Discuss various methods of wage payment in brief. **07**
- Q.4** (a) Discuss various methods of calculating area of irregular figures. **07**
(b) Discuss Guldinus rule for estimation of volumes of solids of revolution **07**
- OR**
- Q.4** (a) Discuss various operation performed on lathe and explain how you calculate machining time for each operation using numerical equation. **07**
(b) Explain important operations in sheet metal shop. **07**
- Q.5** (a) Discuss general estimation procedure in forging shop. Explain various losses in forging shop. **07**
(b) Discuss estimation of pattern cost and estimation in foundry shop. **07**
- OR**
- Q.5** (a) Define capital. Write functions of capital. Discuss various forms of capital. **07**
(b) Enlist and explain techniques of cost control. **07**
