

GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER-VI • EXAMINATION – SUMMER • 2014

Subject Code: 161501**Date: 19-05-2014****Subject Name: Materials Management****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) With reference to your industrial visit explain inventory model used in any one industrial concern you visited. State advantages and disadvantages of the method used. **07**
 (b) Taking hypothetical example of any 12 items, assuming no. of units and unit cost of each item draw ABC curve. **07**
- Q.2** (a) Reputed suppliers are assets of any organization. Explain **07**
 (b) What are the various records maintained in the stores. **07**
- OR**
- (b) Waste management is complimentary to resource management: comment **07**
- Q.3** (a) Design suitable coding system of a shirt company, You may consider the parameters like, sleeve length, Neck size, colour, style, material, price, Market region, sale person etc. **07**
 (b) Explain Bin cards **07**
- OR**
- Q.3** (a) Explain spare parts management **07**
 (b) What important policy decisions a purchase manager must make in planning his purchases? **07**
- Q.4** (a) Explain role of value analysis in purchasing. **07**
 (b) Discuss principles of good stores layout. **07**
- OR**
- Q.4** (a) Discuss sub contracting. **07**
 (b) Discuss materials research. **07**
- Q.5** (a) Explain materials requirement planning. **07**
 (b) Explain factors affecting make or buy decision. **07**
- OR**
- Q.5** Find the optimal order quantity for a product for which the price breaks are as follows. **14**
- | Quantity | price per unit (Rs.) |
|--------------------------|----------------------|
| $0 \leq Q < 100$ | 20 |
| $100 \leq Q < 200$ | 18 |
| $200 \leq Q$ | 16 |
- The monthly demand for the product is 600 units. The storage cost is 15% of the unit cost of the product & the cost of ordering is Rs. 30 per order.
