

GUJARAT TECHNOLOGICAL UNIVERSITY**BE - SEMESTER-VI (NEW) - EXAMINATION – SUMMER 2017****Subject Code: 2161501****Date: 27/04/2017****Subject Name: Materials 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.

| | | MARKS |
|------------|--|--------------|
| Q.1 | Short Questions | 14 |
| | 1 What is EOQ? | |
| | 2 What is Vendor rating? | |
| | 3 Which are the objectives of store keeping? | |
| | 4 Which are the documents required by Stores Department to issue materials? | |
| | 5 What is inventory control? | |
| | 6 Which are the departments is generally responsible for inventory management? | |
| | 7 What is lead time? | |
| | 8 What are three level of materials management? | |
| | 9 What is the role of materials management? | |
| | 10 Which are the accounts records the cost of scrap material? | |
| | 11 What is demand? | |
| | 12 What is the main aim of materials management? | |
| | 13 What is meant by purchase order? | |
| | 14 What do you mean by materials management? | |
| Q.2 | (a) Give reasons for generation and accumulation of obsolete and surplus items. | 03 |
| | (b) Describe importance of surplus and scrap management. | 04 |
| | (c) Explain materials requirement planning. | 07 |
| OR | | |
| | (c) Discuss principles of good stores lay out. | 07 |
| Q.3 | (a) What are the various records maintained in the stores. | 03 |
| | (b) Discuss scope of materials control function in a foundry. | 04 |
| | (c) What are the different methods of purchasing generally followed by industrial firms? | 07 |
| OR | | |
| Q.3 | (a) Discuss principles of buffer stocking. | 03 |
| | (b) Explain the importance of materials management. | 04 |
| | (c) Discuss Two-bin system of inventory control. Also discuss principles of buffer stocking. | 07 |
| Q.4 | (a) Discuss various categories of inventory in any organization. | 03 |
| | (b) Discuss the advantages of fixed order quantity system. | 04 |
| | (c) Given that (1) Annual usage, $U = 60$ units, (2) | 07 |

Procurement cost, $P = \text{Rs. } 15$ per order, (3) Cost per piece, $C = \text{Rs. } 100$ (4) Cost of carrying inventory I , a percentage including expenditure on obsolescence, taxes, insurance, deterioration etc. = 10%. Calculate E.O.Q.

OR

- Q.4** (a) Discuss sub contracting. **03**
(b) Explain the objectives of MM. **04**
(c) Find Economic order quantity and Maximum inventory from the following data: Annual usage, $U = 10,000$ units, Procurement cost, $P = \text{Rs. } 100$ per order, Cost per piece, $C = \text{Rs. } 10$ per unit, $B = \text{Rs. } 15$ per each backorder incurred, Cost of carrying inventory I , a percentage including obsolescence, taxes, insurance, etc. = 20%. **07**
- Q.5** (a) What are the advantages of good store keeping? **03**
(b) Discuss importance of ABC analysis in a selective inventory control. **04**
(c) Discuss codification as a principle requirement of storekeeping. Discuss various popular codification methods. **07**

OR

- Q.5** (a) What do you understand by materials research? **03**
(b) Discuss sources of supply and supplier selection. **04**
(c) Discuss Make or buy decision in light of purchasing management. **07**
