

Production and Operation Management of Textile Industry– TXL 782

Minor -2

Discipline: B.Tech.

Time: 1 hours

Date: 23.03.2016

Max. Marks: 20

1. How are the (a) classification of material and (b) EOQ concepts put together? (4)
2. Safety stock and economical order quantity concepts are ^{opposite} inimical to the Material Requirement Planning (MRP) system. Discuss. (4)
3. How does a supply chain make any company competitive? (4)
4. What is the role of set-up times in JIT? How should they be reduced? Give an example. (4)
5. A Textile Mill uses a raw material which it obtains from a local sources. A fixed order quantity inventory system is used. The cost of ordering and carrying are estimated at Rs. 50 per order and Rs. 10 per unit per year respectively. The lead time for order is constant at 30 days. The figure of variable usage per day, observed in the past, are given below. Calculate the order quantity and required buffer stock-out for maximum of 5% risk of stock-out. (4)

Usage per day	No. of times such usage was observed in the past
7	5
8	11
9	20
10	25
11	12
12	4
13	3