

00343

B.Tech. Civil (Construction Management)
Term-End Examination
December, 2012

**ET-581(B) : INVENTORY AND STORES
MANAGEMENT**

Time : 3 hours

Maximum Marks : 70

Note : Attempt any ten questions. Five each from Part A and Part B. Assume any missing data suitably.

PART-A

Attempt *any five* questions :

1. What is Inventory Control ? Why inventory control is essential ? Explain. 7
2. Explain the terms : 7
 - (a) Economics Order Quantity
 - (b) Re-order time
 - (c) Lead time
3. A manufacturing concern has a fixed weekly cycle demand as follows : 7

Demand in units	Mon	Tue	Wed	Thur	Fri	Sat	Sun
	9	17	2	0	19	9	14

Policy is to maintain constant daily production seven days a week. Shortage cost is Rs. 4 per unit per day, and the storage cost depends upon the size of Q, the quantity carried as follows :

Cost per unit per one day (Rs) :

Cost per unit per one day (Rs.)	1	4	10
Q	$1 \leq Q \leq 3$	$4 \leq Q \leq 20$	$21 \leq Q$

The charges are based on the end of the day situation. Determine the Optimal Starting Stock Level.

4. What are the different functions of the procurement department ? 7

5. What is the information needed for writing a requisition ? 7

6. A company estimates the demand of an item as follows : 7

Month:	J	F	M	A	M	J	J	A	S	O	N	D	Total
Demand : (in Items)	130	88	52	124	10	62	12	154	129	160	238	41	1200

Ordering cost = Rs. 54, carrying charge per unit per month = 2% at the end of each month.

Unit cost = Rs. 20. Supply is instantaneous. There is no lead time and no stock-outs. Only full month requirement is ordered. Calculate the cost for ordering the items quarterly.

7. What factor do you think most influences the inventory of Industry, and state the one which influences the least ? 7

PART-B

Attempt *any five* questions :

8. What are the points to be considered while deciding the site of the store ? 7
 9. Prepare a schematic layout plan of a cement and steel stores, where the suppliers are delivered by railway wagons and road trucks. 7
 10. What are the advantages of a good coding system ? What is priced vocabulary of store ? 7
 11. How do you switch from normal inspection to tightened inspection ? 7
 12. When do you select a double sampling plan ? Give an example. 7
 13. What is the utility of maintaining store accounts ? Explain in detail. 7
 14. What is the utility of Bincards ? What is the significance of issue rate ? 7
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