B.Tech. Civil (Construction Management)

Term-End Examination

December, 2018

00663

ET-581(B) : INVENTORY AND STORES MANAGEMENT

Time : 3 hours   *Maximum Marks : 70*

Note : *Attempt **ten** questions, **five** each from Part A and Part B. Assume missing data suitably.*

Part A

*Attempt any **five** questions :*

1. With the help of examples, explain the various costs involved in inventory control specific to the construction industry.   7

2. A certain item costs ₹ 235 per ton. The monthly requirement is 5 tons and each time the stock is replenished, there is a set-up cost of ₹ 1,000. The cost of carrying inventory has been estimated at 10% of the value of the stock per year. Calculate the optimum order quantity.   7

3. What is EOQ ? Derive an expression for EOQ (Sawtooth model). Give the limitations of the EOQ model. 7

4. Describe the procedure for ABC Analysis of Inventory Control. Bring out the merits and demerits of ABC Analysis. 7

5. XYZ Corporation has got demand for a particular part at 10,000 units per year. The cost per unit is ₹ 2 and it costs ₹ 36 to place an order and to process the delivery. The inventory carrying cost is estimated at 9 percent of average inventory investment.

   Determine : 7

   (a) EOQ

   (b) Optimum number of orders to be placed per annum

   (c) Minimum total cost of inventory per annum

6. What is buffer stock ? List the reasons for keeping a buffer stock. 7

7. Write short notes on the following : $2 \times 3\frac{1}{2} = 7$

   (a) Purchase Order

   (b) Receipt of Material at Site

Part B

*Attempt any **five** questions :*

8. Why are single-storeyed and multi-storeyed buildings constructed for storehouses ? List out their advantages.   7

9. What are the factors to be considered in deciding the size of the store ? Explain.   7

10. List out the types of stores. Discuss any one of them.   7

11. Discuss the precautions to be taken in the storage of explosives and chemicals.   7

12. Explain the utility of maintaining Stores Account and Bin Cards.   7

13. What is Stock taking ? Describe the two methods of Stock taking.   7

14. When do you select a double sampling plan ? Give an example.   7

___