GUJARAT TECHNOLOGICAL UNIVERSITY
BE - SEMESTER–VI(NEW) EXAMINATION – WINTER 2022

Subject Code:3161501   **Date:16-12-2022**
Subject Name:Materials Management
Time:02:30 PM TO 05:00 PM   **Total Marks:70**
Instructions:
  1. **Attempt all questions.**
  2. **Make suitable assumptions wherever necessary.**
  3. **Figures to the right indicate full marks.**
  4. **Simple and non-programmable scientific calculators are allowed.**

			MARKS
Q.1	**(a)**	Define materials management.	**03**
	(b)	Discuss the role of materials management in modern industry.	**04**
	(c)	Discuss Make or buy decision in light of purchasing management.	**07**
Q.2	**(a)**	What do you understand by sub-contracting?	**03**
	(b)	Describe importance of surplus and scrap management.	**04**
	(c)	Explain materials requirement planning.	**07**
		OR	
	(c)	Write note on Types of Purchasing Systems.	**07**
Q.3	**(a)**	What is meant by purchase order?	**03**
	(b)	Discuss principles of good stores layout.	**04**
	(c)	Describe the procedure for disposing the surplus and obsolete items.	**07**
		OR	
Q.3	**(a)**	What are the various records maintained in the stores.	**03**
	(b)	Discuss Two-bin system of inventory control.	**04**
	(c)	Explain how to evaluate suppliers' efficiency.	**07**
Q.4	**(a)**	What do you understand by materials research?	**03**
	(b)	Explain codification with illustration.	**04**
	(c)	Bring out the main points of difference between ordering cost and inventory carrying cost.	**07**
		OR	
Q.4	**(a)**	What is Vendor rating?	**03**
	(b)	Discuss ABC analysis.	**04**
	(c)	Discuss codification as a principle requirement of storekeeping. Discuss various popular codification methods.	**07**
Q.5	**(a)**	What is inventory control?	**03**
	(b)	Discuss principles of buffer stocking.	**04**
	(c)	1000 ml bottles are used for certain tablets and powders. Annual requirements are 6,00,000 and unit price is Rs.12. The cost of holding stock is 15% per annum and Ordering cost is Rs.6. Find: (i) EOQ (ii) No. of orders to be placed in a year.	**07**
		OR	
Q.5	**(a)**	What do you understand by materials research?	**03**
	(b)	Explain fixed order quantity system.	**04**
	(c)	Discuss role and scope of materials control function in a foundry.	**07**

****