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GUJARAT TECHNOLOGICAL UNIVERSITY

BE - SEMESTER-VI (NEW) - EXAMINATION - SUMMER 2018

6		BE - SEMESTER-VI (NEW) - EXAMINATION – SUMMER 2018 Deter 29/04/2018	
		ect Code:2161501 Date:28/04/2018	
Subject Name: Materials Management			
Time:10:30 AM to 01:00 PM Total Marks: 70 Instructions:)
11		ctions: . Attempt all questions.	
 Make suitable assumptions wherever necessary. 			
	3	. Figures to the right indicate full marks.	
Q.1	(a)	Explain the objectives of MM.	03
-	(b)	Discuss role of value analysis in purchasing.	04
	(c)	Describe the procedure for disposing the surplus and obsolete items.	07
Q.2	(a)	Explain fixed order quantity system.	03
· ·	(b)		04
	(c)	Write note: Types of Purchasing Systems.	07
		OR	
0.1	(c)	Write notes: ABC analysis.	07
Q.3	(a) (b)	Explain any one selective inventory control techniques. What are the advantages of good store keeping?	03 04
	(D) (C)	Given that (i) Annual usage, U=60 units, (ii) procurement cost, P=Rs.15 per	04
	(0)	order (iii) cost per piece, C=Rs. 100 (iv) cost of carrying inventory I, a	07
		percentage including expenditure on obsolescence, taxes, insurance,	
		deterioration etc. = 10% . Calculate E.O.Q.	
		OR	
Q.3	(a)	Discuss various categories of inventory in any organization.	03
	(b)	Discuss principles of good stores layout.	04
Q.4	(\mathbf{c})	Explain in brief, the factors affecting Make of Buy decision. Discuss sources of supply and supplier selection.	07 03
Q.4	(a) (b)	Discuss Two-bin system of inventory control.	03 04
	(c)	Find Economic order quantity Q and Maximum inventory M from the	07
		following data: U=10,000 Units, P=Rs. 100 per order, C=Rs. 10 per unit,	
		B=Rs. 15 per each backorder incurred, I=20%.	
		OR	
Q.4	(a)	Short note on standardization.	03
	(b)	-	04 07
	(c)	1000 ml bottles are used for certain tablets and powders. Annual requirements are 3, 00,000 and unit price is Rs. 8. The cost of holding stock is 15% per	07
		annum and Ordering cost is Rs. 5. Find a) EOQ b) No. of orders to be placed	
		in a year.	
Q.5	(a)	What is Vendor rating?	03
	(b)	What do you understand by materials research?	04
	(c)	Discuss role and scope of materials control function in a foundry.	07
0 -		OR	0.2
Q.5	(a) (b)	Discuss sub contracting.	03
	(b) (c)	Explain materials requirement planning. Bring out the main points of difference between ordering cost and inventory	04 07
		carrying cost.	07
