

**Babu Madhav Institute of Information Technology, UTU**  
**5 Years Integrated M.Sc. (IT) Semester 2**  
**Practical CIE – 3**

**Date: 30/04/2019**

**Max. Marks: 30**

**Time: 120 Minutes**

**Read the scenario given below.**

E-commerce shopping portal Amazon keeps record of the following information when a sale is made in its shopping portal: the customer identification number of the customer who made the purchase along with item identification number, quantity and a key field that helps to identify each sales uniquely. Amazon stores each item details with its identification number, quantity in stock, price and reorder level. Amazon puts order with order identification number and order quantity along with the identification number of item to be ordered. Only registered customer can purchase any product from Amazon. Amazon provides each customer a unique identification number along with name, city and status. Status of customer may be one of the followings: Preferred, Prime, Non-Prime.

SET A

**Consider the given scenario and create required tables with constraints. Insert at least 5 records in each table. Write down assumptions clearly, if you made.**

**Create the most appropriate stored program for following requirements. [ATTEMPT ANY TWO]**

1. Amazon has launched a loyalty cash back scheme for its members who have made at least 20 purchases so far. The amount of cash back is 5% of total sales amount if the customer has made less than 30 purchases otherwise it would be 10%. Display applicable cash back amount along with customer id for all eligible customers.
2. Sales manager is interested in knowing the item name which is in high demand. If manager enters a positive integer number N, then show him the item name which stands at N<sup>th</sup> rank in high demand.
3. While purchasing an item, the customer will input the item identification number, quantity to be purchased along with its own identification number. Maintain the entity integrity constraints when sales is made.

SET B

**Consider the given scenario and create required tables with constraints. Insert at least 5 records in each table. Write down assumptions clearly, if you made. [ATTEMPT ANY TWO]**

**Create the most appropriate stored program for following requirements.**

1. Amazon wants to promote its portal very aggressively in those cities from where it is getting less number of orders. Assist the promotion manager in finding the name of city which is in N<sup>th</sup> rank in the list of lowest order generating cities. (N is a positive integer number)
2. Amazon wants that an order should be immediately placed to buy an item with 1000 quantity when stock quantity falls below the reorder level of that item.
3. Amazon has decided to convert all non-prime customers into prime customers who's total sales amount is between Rs. 10000 and Rs. 20000. The non-prime customers who's total sales amount exceeds 20000 should be converted into preferred customers.