Seat No._____

BCA Semester -6 Practical Examination (NEW-CBCS) April 2019
Paper No-BCA – CC – 607 Practical

[Duration: 03:00 Hours] **SET A** **[Total Marks: 100]**

Que – 1 WAP in java to create and runs following threads:

1) Print "A" 20 times
2) Print "B" 30 times
3) Print "C" 15 times.

Create three different threads and implement it using proper multithreading method. **[25]**

Que – 2 WAP in Java to create class **inventory** having attributes item_id,name, price, rate, total. Define necessary constructors, and methods like input(), display(), and search().

Insert at least 5 records

Create a menu driven program to do the following.

1. input inventory details.
2. display inventory details.
3. search inventory item based on item_id. **[25]**

Que – 3 Create following table as directed and do the needful **[50]**

Create table "Master"

Column Name	Data type	Description
Account_id	Numeric (5)	Primary Key
Balance	Numeric (8,2)	Balance in Account

Create table "Transaction"

Column Name	Data type	Description
Account_id	Numeric (5)	Foreign Key
Balance	Numeric (8,2)	Balance in Account
Transection_date	Date	Date of Transection
Remark	Varchar2	Remarks if any

Now enter at least 3 records in master table

Write a PL-SQL block which gets Account_ID and Amount from the user and update the Balance in the "Master" table with following rules

A. If amount with no sign consider as a credit amount
B. If amount with negative sign considered as a Debit amount
C. Max Credit amount is 50,000/-

If amount is within the limit than the remark is "Valid" otherwise "Invalid" and insert the record in the "Transaction"

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[Duration: 03:00 Hours] SET B [Total Marks: 100]

Que – 1 WAP in Java to create a class **product** having attributes like item_id, name, price, expiry_date. Define the necessary constructor, also define input and display methods. Create a menu driven program to perform the following. **[25]**

1. Input product details.
2. Display product detail
3. Search product based on item_id.

(Note: if user input negative balance then raised user define exception)

Que – 2 WAP in Java to create class **matrix** to represent 3X3 matrix, and to perform row total and column total. Define appropriate data members and member functions. **[25]**

Que – 3 Create following table using RDBMS **[50]**

Table name : **product_master**

Fields	Data Types	Size	Constraints
Product_id	Number	4	PK
Product_name	Varchar2	20	Not Null
Product_price	Number	3	

Table Name:**product_order**

Fields	Data Types	Size	Constraints
Product_id	Number	4	Foreign key
Quntity	Number	3	

Do as directed....

1. Insert at least 5 records in both tables.
2. Displays records of both tables using procedures.
3. Create trigger history_product_order before delete or update quantity and stored records in history_product_order