FE. Sem II (Rev.) All branches Con. 3751-08.	Computer Programmi	ing -II. 23/12/08
Con. 3751-08.	(REVISED COURSE)	RC-5558
*	(3 Hours)	[Total Marks : 100
(3) Assumptions m	is compulsory . ur questions out of remaining six hade should be clearly stated. rograms and program segment on	at account. From this de
1. (a) Explain life cycle of	f a thread.	the following tasks
(b) Write a program in		5 Accept deposi
(c) Explain JVM in brie	if.	c (ii) Display the ba
	determine the sum of the series for $1/n$	

- (a) Compare and contrast overriding method and overloading method with suitable ¹⁰ examples.
 - (b) Write a program in java for fitting a straight line through a set of points (x_i,y_i), i = 1, ..., n. The straight line equation is y = mx + c and the values of m and c are given by

$$m = \frac{n\sum (x_i y_i) - (\sum x_i) (\sum y_i)}{n (\sum x_i^2) - (\sum y_i)^2}$$

$$C = \frac{1}{n} \left(\sum y_i - m \sum x_i \right)$$

3. (a) Write a program to display the following menus and submenus.

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- (b) Explain different types of inheritance with suitable examples.
- 4. (a) What is vector ? How it is different from an array ?
 - (b) What are the applications of wrapper classes ?
 - (c) Assume that a bank maintains two kind of account for its customers. The saving account provides compound interest and withdrawal facilities but no cheque book facility. The current account provides cheque book facility but no interest. Current account holders should also maintain a minimum balance and if the balance falls

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below this level, a service charge is imposed.

Create a class account that stores customer name, account number and type of account. From this derive the classes current-acct and saving-acct to make them more specific to their requirements. Include the necessary methods in order to achieve the following tasks :

(BEVISED C2URSE)

(i) Accept deposit from a customer and update the balance.

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- (ii) Display the balance.
- (iii) Compute and deposit interest
 - (iv) Permit withdrawal and update the balance
 - (v) Check for the minimum balance, impose penalty, if necessary, and update the balance.
- 5. (a) Explain Java Exception Handling with different examples. O bis enamed (a)
 - (b) Write a program to create multiple threads.
 - (c) Write a program to check whether given string is palindrome or not.
- 6. (a) How do you add a class or an interface to a package ? Explain with examples.
 (b) Will the code compile ? if not, why ? if yes, write output.
 - (i) import circle;

class Import Class

public static void main (String [] args)

```
circle. NewCircle nc = new circle.NewCircle ();
System.out.println ("Hellow World !");
```

```
}
(ii) int m = 10;
int n = 7;
while ( m % n > = 0)
{
    m = m + 1;
    n = n + 2;
```

(c) Explain Type Conversion and Type Casting in Java with examples.

- 7. Write short notes on (any four) :- a monthematic at the wold a note of a local state (a)
 - (a) HTML Applet Tags
 - (b) Parameter Passing to Applets
 - (c) Abstract Methods and Classes
 - (d) Features of Java sold superior applying inucces them to on Traditional
 - (e) Synchronization
 - (f) String Methods.

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