Reg. No. : ....

Name : ....

V Semester B.Com. Degree (CCSS-Reg./Supple./Imp.) Examination, November 2015
CORE COURSE IN COMMERCE
5B12 : COM – (D : Computer Applications)
Programming in Java (Optional) (2012 Admn. Onwards)

Time : 2 Hours   Max. Weightage : 20

PART – A

This Part consists of **two** bunches of question carrying **equal** weightage of **one**. **Each** Bunch consists of **four** objective type questions. Answer **all** questions.

I. 1) Java Source Code is compiled into

    A) .obj   B) .exe   C) Byte code   D) None

  2) Which will legally declare, construct and initialize an array ?

    A) int [ ] myList = {"1", "2", "3"};   B) int [ ] myList = (5, 8, 2);

    C) int myList [ ] [ ] = {4,9,7,0};   D) int myList [ ] = {4, 3, 7};

  3) Single line comment starts with _____ in Java.

    A) //   B) /**   C) /**/   D) *

  4) The clubbing up data and functions operating on the data into a single unit is called

    A) Abstraction   B) Polymorphism   C) Encapsulation D) Inheritance

                                                           (W. = 1)

II. Match each of the following data types with literal constants of that data type. A data type can be used more than once.

    5) integer   a) "Oct"

    6) character   b) '+'

    7) string   c) – 85

    8) boolean   d) true

                                                           (W. = 1)

PART – B

Answer **any six** questions in **one** or **two** sentences each. **Each** question carries a weightage of **one**.

9. What is the output of System.out.println (x<y?a:b) when x = 1, y = 2, a = 3, b = 4 ?

10. What is polymorphism ?

11. Discuss about the constructor.

12. What is JVM ?

13. When do you use continue and when do you use break statements ?

14. Give an example of an infinite loop.

15. Why do we need public static void main (String args[]) method in Java ?

16. What is the difference between constructor and method ?   (W. 6×1=6)

PART – C

Answer **any four** questions. Answer not to exceed **one** page. **Each** carries a weightage of **two**.

17. Correct the errors in the following statements
    boolean b = False;
    for (int p = 4, q = 2.5; p ≤ 8; p++, q– –)
    x* = p+q;
    System.out.println (p+" "+q);

18. What is meant by overloading methods ?

19. Differentiate between switch and if-else-if statements.

20. Write a program to generate first twenty terms of the series 1, 1, 2, 3, 5, 8, 13, 21 ...

21. What is the advantage of object oriented programming ?

22. An electricity board charges as per the following criteria :

No. of Units	Charge
First 150 units	Rs. 1.25 per unit
Next 100 units	Rs. 2 per unit
Beyond 250 units	Rs. 2.50 per unit

Write a program to input name and number of units used by n customers and print the following :

a) Print a bill for each customer

b) Print the number of customers consumed below 100 units.   (W. 4×2=8)

PART – D

Answer **any one**. **Each** question carries a weightage of **four**.

23. How the object oriented approach helps us keep complexity of software development under control ?

24. Define a class "account" with data members Account No, Customer Name, balance and methods to accept data, deposit, amount, withdraw the amount, display the data.   (W. 1×4=4)

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