

Reg. No. :

Name :

V Semester B.Com. Degree (CCSS – Reg./Supple./Imp.)

Examination, November 2014

CORE COURSE IN COMMERCE

5B12 COM : (D-Computer Application) : Programming in Java

(2012 Admission) (Optional)

Time : 2 Hours

Max. Weightage : 20

PART – A

This Part consist of **two** bunches of question carrying **equal** weightage of **one**.

Each bunch consists of **four** objective type questions. Answer **all** questions.

I. 1) What is the range of data type 'byte' in Java ?

- a) – 128 to 127
- b) – 32768 to 32767
- c) – 2147483648 to 2147483647
- d) None of the mentioned

2) Which is a not : characteristic of Java programming language ?

- a) Robust
- b) Procedural
- c) Distributed
- d) Multithreaded

3) _____ is the output displayed as the result of executing the statement `system.out.println("// Looks like a comment.");`

4) _____ is the starting and _____ ending index of the array 'number' declared as `int number [] = new int[5];` **(W = 1)**

P.T.O.



II. Match the following :

- | | |
|-------------------------|--------|
| 5) Logical operator | a) ++ |
| 6) Relational operator | b) > = |
| 7) Increment operator | c) > > |
| 8) Conditional operator | d) ?: |
| | e) & & |
| | f) * |

(W = 1)

PART - B

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

9. Distinguish between continue and break statements.
10. State the difference between a boolean literal and a character literal.
11. Write the output of $x < y ? a : p * q$ when $x = 1, y = 2, p = 3, q = 4, a = 6$.
12. What is the difference between while and do while loop ?
13. Briefly explain the Java Virtual Machine.
14. What is a void return type ?
15. Correct the errors in the following statements :
 - a) for (int i = 9; i ≤ 10; i ++);
 - b) boolean h = (a > 5 && b < 10)
16. When do we declare a method or class final ?

(W=6×1=6)

PART - C

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

17. What is the advantage of object oriented programming over procedural programming ?
18. Write a program to find out whether the given number is palindrome or not.



19. Explain the working of the following statement and give output :

```
k = 0;
while (1)
{k = k + 2;
if (k= = 20) break;
System.out.println(k);}
```

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

21. Comment on the visibility controls private, public and protected access.

22. Define a class student with data members register number, name, Mark1, Mark 2, Mark 3 and methods :

- a) to accept the data and
- b) to display the total marks.

(W=4×2=8)

PART – D

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

23. List and explain the basic concepts of object oriented programming.

24. Explain default constructor and parametrised constructor with the help of an example.

(W=1×4=4)