

## MID TERM EXAMINATION

BCA | 4<sup>TH</sup> SEMESTER

Time: 1:15 Hour

Max. Marks: 30

**Q.1- Answer the following questions.**

**(1 x 6 = 6 Marks)**

a) What is the output of the following java code?

(CO-1, BL-1)

- b) Predict output: `System.out.println("1"+2);` (CO-1, BL-6)

- c) Which of the following is NOT a java primitive type?

(CO-2, BL-2)

- ### State True/ False

- d) JVM is platform independent. (CO-1, BL-3)

- e) java.util is the default package of java. (CO-2, BL-1)

- f) reverse () is method of String class. (CO-5, BL-2)

**(2 x 3 = 6 Marks)**

- a) Explain any five features of Java. (CO-2, BL-2)  
b) Difference between JDK, JVM and JRE. (CO-2, BL-2)  
c) Write a program in java to add two matrices(2\*2). (CO-2, BL-6)

**(1 x 6 = 6 Marks)**

- a) Differentiate between abstract class and interface. (CO-2, BL-3)



**OR**

- b) How method overloading differs from overriding? Explain with the help of an example. (CO-2, BL-4)

**Q.4- Attempt any one of the following. (1 x 6 = 6 Marks)**

- a) What is String. Explain any five functions of String with example (CO- 2, BL-4)

**OR**

- b) Explain constructor and its types in Java. (CO- 2, BL-3)

**Q.5- Attempt any one of the following. (1 x 6 = 6 Marks)**

- a) Is multiple inheritance supported in java. If yes then explain how (with the help of program). (CO- 2, BL-6)

**OR**

- b) What is an exception? Why is exception handling required? How exception can be handled? Write a java program to demonstrate the use of finally block and throw keyword to handle the exception.

(CO-5, BL-6)