DR. BABASAHEB AMBEDKAR TECHNOLOGICAL UNIVERSITY, LONERE

Mid Semester Examination – Oct 2019

Course: B. Tech in Information and Technology   Sem: III

Subject Name: Programming in JAVA   Subject Code: BTITE305B

Max Marks: 20   Date:- 8/10/2018   Duration:- 1 Hr.

Instructions to the Students:

1. Assume suitable data wherever necessary.
2. All questions are compulsory.

	(Level/CO)	Marks

Q. 1   Solve all questions. One mark for each questions.

1. Which of the following is FALSE about arrays on Java   CO1

a) A java array is always an object

b) Length of array can be changed after creation of array

c) Arrays in Java are always allocated on heap

d) None of the above

2. What will be the output of following code   CO1

```
class Test
{
    public static void main (String[] args)
    {
        int arr1[] = {1, 2, 3};
        int arr2[] = {1, 2, 3};
        if (arr1.equals(arr2))
            System.out.println("Same");
        else
            System.out.println("Not same");
    }
}
```

a) Same b) Not same c) Compile time error d) None of the above

3. Multiple inheritance means,   CO1

a) one class inheriting from more super classes

b) more classes inheriting from one super class

c) more classes inheriting from more super classes

d) None of the above

e) (a) and (b) above.

4. Which statement is not true in java language?   CO1

a) A public member of a class can be accessed in all the packages.

b) A private member of a class cannot be accessed by the methods of the same class.

c) A private member of a class cannot be accessed from its derived class.

d) A protected member of a class can be accessed from its derived class.

e) None of the above.

5. Which of these keywords is used by a class to use an interface defined previously?   CO1

a) import b) Include c) implements d) implements

6. What is true about constructor?   CO1

a) It can contain return type

b) It can take any number of parameters

c) It can have any non access modifiers

d) Constructor cannot throw an exception

Q.2 Solve Any Two of the following.   3 X 2

(A) Explain constructor and its properties with example.   CO1

(B) Write program to calculate volume of a rectangular block using classes and object with this keyword.   CO2

(C) Write a program to calculate sum and average of a n number using multilevel inheritance in java.   CO2

Q.3 Solve Any One of the following.   8 X 1

(A) Write a java program to convert the integer into binary number.   CO3

(B) Write a java program to calculate the monthly electricity bill for the given range of price per unit consumed.   CO3

1-100 units   – 12 Rs/unit

1-200 units   – 14 Rs/unit

1-300 units   – 16 Rs/unit

300 above   –   18 Rs/unit

(Accept the no. of units consumed by user in integer)

*** End ***