

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.

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

(Level/CO) Marks

6

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 ***