

**POSSESSION OF MOBILE IN EXAMINATION IS A UFM PRACTICE**

Name of Student ----- Enrolment No. -----

Department -----

**BENNETT UNIVERSITY, GREATER NOIDA**

**Supplementary Examination 2018-19**

COURSE CODE: **ECSE102L**

MAX. DURATION: **TWO HOUR**

COURSE NAME: **Object Oriented Programming Using Java**

COURSE CREDIT: **6**

MAX. MARKS: **30**

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**Note**

- All questions are compulsory
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**Q1:** What is class and object in java, explain the concept of class and java using any case study. Also explain the role of stack and heap in the creation of objects. **4 Marks**

**Q2:** What is Inheritance? Explain the types of inheritance in Java with example **4 Marks**

**Q3:** Define the following terms by using an example (Any 5) **5 Marks**

- a** for loop
- b** Void
- c** Break and continue
- d** Method Overloading
- e** Method Overriding
- f** Final Keyword

**Q4:** Write a Java program to arrange the elements of a given array of integers where all positive integers appear before all the negative integers. **4 Marks**

**Input:** Original array: [-4, 8, 6, -5, 6, -2, 1, 2, -3, -11]

**Output:** New array: [8, 6, 6, 1, 2, -4, -5, -2, -3, -11]

**Note:** *Hardcode the values, no need to take user input.*

**Q5:** Why multiple inheritance is not possible in java using class?  
How is it possible using Interface? Explain both scenarios using a java program.

**6 Marks**

<b>Q6:</b>	Write the output of the following codes:	
<b>A)</b>	<pre> class access {     public int x;     static int y;     void cal(int a, int b)     {         x = ++a + b++;         y = y + b--;     } }  class static_specifier {     public static void main(String args[])     {         access obj1 = new access();         access obj2 = new access();         obj1.cal(5, 8);         obj2.cal(9, 1);         System.out.println(obj2.x + " " + y);     } } </pre>	<b>2 Marks</b>
<b>B)</b>	<pre> class Test {     public static void main (String[] args)     {         int arr1[] = {1, 2, 3};         int arr2[] = {1, 2, 3};         if (arr1 == arr2)             System.out.println("Same");         else             System.out.println("Not same");     } } </pre>	<b>2 Marks</b>

**Q7:** Write a Java program to swap two variables:

**3 Marks**

**Test Data:** a= 10, b=15

-----All the Best-----