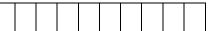
## AR 19

Reg. No





## **GIET UNIVERSITY, GUNUPUR – 765022**

B. Tech (Fourth Semester - Regular) Examinations, June - 2021 BESEL4050 / BESEE4050 - Object Oriented Programming through JAVA (Common to EE and EEE)

Time: 2 hrs Maximum: 50 Marks

## **Answer ALL Questions**

## The figures in the right hand margin indicate marks.

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PART – A: (Multiple Choice Questions)
                                                                                                  (1 \times 10 = 10 \text{ Marks})
Q.1. Answer ALL questions
                                                                                                          [CO#] [PO#]
a. Write down the output of the given program.
                                                                                                             1
                                                                                                                      2
    class T1
    static void test(float x)
    System.out.println("float");
    static void test(double x)
    System.out.println("double");
    public static void main(String args[])
    test(99.9);
    }
    }
     (i) float
                                                      (ii) double
    (iii) Error
                                                      (iv) None of these
   What is the output of the given program?
                                                                                                                      2
       class Use
         public static void main(String args[ ])
         int v1=5;
         int v2=6;
         if((v2=1) = v1)
         System.out.println(v2);
         else
         System.out.println(++v2);
```

```
(ii) 2
     (i) 6
    (iii) 7
                                                      (iv) 5
                                                                                                                     2
c. Which will legally declare, construct and initialize an array?
                                                                                                             1
                                                       (ii) int [ ] myList={"1", "2", "3"};
    (i) int [] myList={"1", "2", "3"};
    (iii) int myList [][] = \{4, 9, 7, 0\};
                                                      (iv) int myList [] = \{4, 3, 7\};
                                                                                                            2
                                                                                                                     1
d. Runnable is a/an _____.
     (i) interface
                                                      (ii) class
    (iii) abstract class
                                                      (iv) None of these
e. What is the output of the given program?
                                                                                                            2
                                                                                                                     2
     class Str
    public static void main(String args[])
     String s1=new String ("Hello");
     String s2=new String ("Hellow");
    System.out.println(s1=s2);
    }
    }
     (i) Hello
                                                       (ii) Error
    (iii) Hellow
                                                      (iv) None of these
f. Which is a super class of all exception classes?
                                                                                                            2
                                                                                                                     1
     (i) Exception
                                                       (ii) IOException
                                                      (iv) Throwable
    (iii) RuntimeException
   A class is declared inside a class but outside a method it is known as ____
                                                                                                            3
                                                                                                                     1
     (i) Anonymous Inner class
                                                       (ii) Local Inner class
    (iii) Member Inner class
                                                      (iv) Static nested class
                                                                                                            3
    The life cycle of the thread is controlled by ___
                                                                                                                      1
    (i) JVM
                                                       (ii) JDK
    (iii) JRE
                                                      (iv) None of these
                                                                                                                     1
i. Which is the correct order of lifecycle in an applet?
                                                                                                            4
    (i) Applet is started, initialized, painted, (ii) Applet is initialized, started, painted,
    destroyed, stopped
                                                      stopped, destroyed
    (iii) Applet is painted, started, stopped, (iv) None of these
    initialized, destroyed
j. In which mechanism, the following steps are required to perform:
                                                                                                                     1
    1) Implement the Listener interface and overrides its methods
    2) Register the component with the Listener
     (i) Exception Handling
                                                       (ii) String Handling
    (iii) Event Handling
                                                      (iv) None of these
```

}

PART – B: (Short Answer Questions)		$(2 \times 5 = 10 \text{ Marks})$		
Q.2. Answer ALL questions			[CO#]	[PO#]
a.	What is Java Token? Outline its different types.		1	1
b.	Why main() is static in Java?		2	1
c.	What is constructor overloading?		2	1
d.	Differentiate between anonymous inner class and local inner class.		3	1
e.	Define Applet.		4	1
PART – C: (Long Answer Questions)		$(6 \times 5 = 30 \text{ Marks})$		
Ansv	wer ANY FIVE questions	Marks	[CO#]	[PO#]
3.	Develop a menu based program for the addition, subtraction, multiplication and division of two complex numbers.	(6)	1	1,2
4.	Define Array? Briefly explain the declaration and initialization of 1-D and 2-D array in Java with suitable examples.	(6)	1	1,2
5.	Differentiate between abstract class and interface. How multiple inheritance can be implemented in Java? Explain it with the help of a suitable program.	(6)	2	1,2
6.	What do you mean by package? Design a program to compute the area of triangle, rectangle and circle by implementing the concept of user defined package.	(6)	2	1,2
7.	What do you mean by multiple threading? How to set the priority of a thread? Design a program for the execution of multiple threads.	(6)	3	1,2
8.	What is thread synchronization in Java? Why it is required? Explain it with a suitable example.	(6)	3	1,2
9.	Write down the basic steps to create Applet programs. Develop a program for the implementation of several methods involved in applet life cycle.	(6)	4	1,2
10.	Outline different AWT classes used in Java. Develop two separate programs to create Frame:	(6)	4	1,2
	(i)by extending Frame class			
	(ii)by creating instance of Frame class.			

--- End of Paper ---