R4A19001137

Maximum: 100 Marks



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Registration No:							
Total Number of Pages: 3		•	•		•	•	B.TECH

4th Semester Regular Examination-April-May 2019

BESES3051 OOPS through JAVA

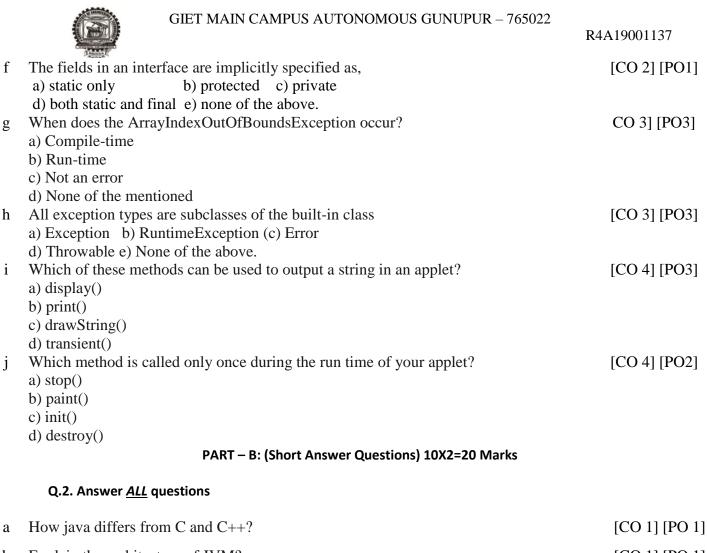
(Regulations 2017) Common to CIVIL/EE/EEE/MECHANICAL ENGG.

Time: 3 Hours **Answer ALL Questions**

The figures in the right hand margin indicate marks.

PART – A: (Multiple Choice Questions) 10 x 2=20 Mark

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Q.1. Answer All Questions
What would be the output of the following snippet, if attempted to compile and run
                                                                                          [CO 1] [PO2]
this code with command line argument "java abc Rakesh Sharma"?
public class abc
        int a=2000;
       public static void main(String argv[])
               System.out.println(argv[1]+":-Please pay Rs."+a);
a) Compile time error
b) Compilation but runtime error
c) Compilation and output Rakesh:-Please pay Rs.2000
d) Compilation and output Sharma:-Please pay Rs.2000
How do you instantiate an array in Java?
                                                                                          [CO 1] [PO1]
a) int arr[] = new int(3);
b) int arr[];
c) int arr[] = new int[3];
d) int arr() = new int(3);
What is the output of the following program:
                                                                                          [CO 1] [PO2]
public class testmeth
{ static int i = 1;
  public static void main(String args[])
  { System.out.println(i+", "+m(i));
    System.out.println(i);
public void m(int i)
i += 2;
         b) false c) 0 d) 1
                                  e) Hello.
Which statement is not true in java language?
                                                                                          [CO 2] [PO1]
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.
To prevent any method from overriding, we declare the method as,
                                                                                         [CO 2] [PO1]
a) static b) const c) final d) abstract e) none of the above.
```



а	How Java differs from C and C++:	
b	Explain the architecture of JVM?	[CO 1] [PO 1]
c	Describe any two methods of Scanner Class	[CO1] [PO 1]
d	Write the procedure to create a package in java?	[CO 2] [PO 3]
e	What are wrapper classes?	[CO 2] [PO 1]
f	Explain the procedure to access interface variables?	[CO 2] [PO 3]
g	What is multithreading in java?	[CO 3] [PO 1]
h	Can we call run() method directly in java?	[CO 3] [PO 2]
i	What is the difference between applet and java application	[CO 4] [PO 1]
j	What is Java AWT?	[CO 4] [PO 1]



PART – C: (Long Answer Questions) 4X15=60 Marks

Answer <u>ALL</u> questions

Q.3	3							
a	Explain the features of OOP?	[8M] [CO 1] [PO 1]						
b	Write a java program factorial of a number using command line arguments.	[7M] [CO 1] [PO 3]						
	OR							
c	Explain the features of Java?	[9M] [CO 1] [PO1]						
d	Explain the difference of various looping statements with the help of appropriate examples.	[6M] [CO 1] [PO 2]						
Q.4								
a	What is method overloading? How it is different from method overriding? Explain with an example.	[8M] [CO 2] [PO 2]						
b	What are constructors? Write down its various features and different types. Also write example for Parameterized constructor?	[7M] [CO 2] [PO3]						
	OR							
c	Write a program to implement Multiple Inheritance using Interfaces. Also explain the process?	[8M] [CO 2] [PO3]						
d	What are various techniques to handle Exceptions in Java? Explain with example.	[7M] [CO 2] [PO 2]						
Q.5	5							
a	What is a thread? Discuss about creation of threads?	[5M] [CO 3] [PO1]						
b	Write a Java program to compute addition and multiplication of given matrices using threads.	[10M] [CO 3] [PO3]						
OR								
c	Write a note on Random Access File.	[8M] [CO 3] [PO1]						
d	Write a program to demonstrate the use of File & data Input/ Output stream	[7M] [CO 3] [PO3]						
Q.6	Ď.							
a	Explain Event delegation. How Action Listener interface is implemented?	[8M] [CO 4] [PO2]						
b	Discuss about java.awt. event. Action Event class.	[7M] [CO 4] [PO1]						
OR								
c	Discuss in detail about Applet life cycle.	[8M] [CO 4] [PO1]						
d	How to pass the parameters to an Applet? Explain with example.	[7M] [CO 4] [PO2]						