



GIET Main Campus (Autonomous)

Gunupur-765 022

Reg.No.:

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B.TECH. DEGREE EXAMINATION-NOV-DEC.2018
End Semester Examination
BCSPC3030/BCSES3051/BITPC3030-OOPS through JAVA
(Regulations 2017)(Common to AEIE, Bio-Tech., Chemical, CSE,ECE Branches)

Time : 3 Hours

Maximum : 100 Marks

Question Code:251212

Answer ALL Questions

PART A - (10 X 2 = 20 Marks)

1. (a) Which of the following is not assignment operator? [CO1][PO1]
 - a) +=
 - b) ==
 - c) %=
 - d) =

- (b) Identify the following and find the correct declaration statement in java program? [CO1][PO1]
 - a) int num=new int[5]
 - b) int num=new num[5]
 - c) int[] num=new int[5]
 - d) None

- (c)is a feature in C++ where two or more functions can have the same name but different parameters. [CO2][PO1]
 - a. Function overloading
 - b. function overriding
 - c.non of them

- (d) Final and finally are both same in java? [CO2][PO1]
 - a. Yes
 - b. no

- (e) sleep() and stop() are same in concept in threading? [CO3][PO1]

What is true about threads?

 - a.Threads consumes CPU in best possible manner.
 - b.Threads enables multi processing.
 - c.Multi threading reduces idle time of CPU.
 - d.All

- (f) What state does Thread enter in when it has been created and started? [CO3][PO1]
 - a.New
 - b Runnable
 - c.Running



GIET Main Campus (Autonomous)

Gunupur-765 022

d.Waiting

- (g) Which of these interface is not a member of java.io package? [CO3][PO1]
A. DataInput
B. ObjectInput
C. ObjectFilter
D. FileFilter
- (h) What invokes immediately after the start() method and also any time the applet needs to repaint itself in the browser? [CO4][PO1]
a. stop()
b. init()
c. paint()
d. destroy()
- (i) Which of these methods are used to register a keyboard event listener? [CO4][PO1]
a) KeyListener()
b) addKistener()
c) addKeyListener()
d) eventKeyListener()
- (j) Which of these operators can be used to get run time information about an object? [CO4][PO1]
a) getInfo
b) Info
c) instanceof
d) getinfoof

PART B - (10 X 2 = 20 Marks)

2. (a) Write the coding part to find the reverse of a number by accepting number Command Argument. [CO1][PO3]
- (b) Write the codes to check the biggest among three numbers using ternary operator? [CO1][PO3]
- (c) Write a code to access the super class methods and instance variables by using super keyword from sub class [CO2][PO2]
- (d) Recall the concept of constructor. How do we invoke constructor in JAVA? [CO2][PO1]
- (e) Illustrate the conditions for using super() method? [CO2][PO1]
- (f) Predict the exception does the program throw? [CO3][PO1]
Public class test



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Gunupur-765 022

```
{  
Public static void main(String args[])  
{  
String s="abc";  
System.out.println("char at",s.charAt(3));  
}  
}
```

- (g) Enlist the importance of finally keyword in exception handing? [CO3][PO1]
- (h) Identify 2 checked exception names. [CO3][PO1]
- (i) Differentiate between isAlive() and Join() in MultiThreading? [CO3][PO1]
- (j) Compare the difference between java applet program and java application program. [CO4][PO1]

PART C - (4 X 15 = 60 Marks)

3. (a) (i) Demonstrate a Java program to search an element using binary search. [7][CO1][PO1]
- (ii) Design a Java program to perform addition of two matrices, where the values are accepted to the both matrix at run time using Buffer Reader Class. [8][CO1][PO1]
- (or)
- (b) (i) Demonstrate a Java program to accept a number at run time using scanner class and check the given number is Armstrong or not? [7][CO1][PO1]
- (ii) Demonstrate a Java program to convert a binary number to decimal number. [8][CO1][PO1]
4. (a) (i) Design a java program to create to display your name, branch with your college name?[7][CO2][PO1]
- (ii) Define function over loading and write a program to calculate the area of Circle, Sphere and Square using function overloading concept? [8][CO2][PO2]
- (or)
- (b) (i) Differentiate between function over loading and constructor overloading with a suitable example? [8][CO2][PO1]
- (ii) Discuss about constructor? Explain constructor overloading with example. [7][CO2][PO1]



GIET Main Campus (Autonomous)

Gunupur-765 022

5. (a) (i) Illustrate a program to input two numbers using scanner class and find the division of the entered number. Use an appropriate exception handling mechanism to handle arithmetic exception? [7][CO3][PO1]
- (ii) Evaluate a program for computing xy doing repetitive multiplication. X and y are of type integer and are to be given as command line arguments. Raise and handle exception(s) for invalid values of x and y? [8][CO3][PO3]
- (or)
- (b) (i) What is user defined Exception in Java ? WAP to accept student age and check whether he is eligible for vote or not? Show an appropriate message when the age is not eligible?[8][CO3][PO1]
- (ii) Write a java program to store "Java file is good" in to a file called "myfile.txt". [7][CO3][PO3]
6. (a) (i) Write a Java program to implement Mouse Motion Adapter? [8][CO4][PO3]
- (ii) Design an applet having a circle which is moving from left to right and reflected back from right to left continuously? [7][CO4][PO3]
- (or)
- (b) (i) A.Design an applet that having three scroll bars for three colors red, green and blue with minimum 0 and maximum 255 values. The background color of applet changes depending on the value of the scroll bar at that time. [15][CO4][PO3]
- (ii) Write a program to create an applet with some background color and foreground color with a message. The message string is stored in msg and is displayed in paint() method[8][CO4][PO3]