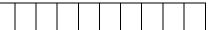
QPC: RD19BTECH075

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Reg. No





GIET UNIVERSITY, GUNUPUR – 765022

B. Tech (Third Semester - Regular) Examinations, December - 2020

BPCCS3030 / BESCS 3051 / BPCCT 3030 - OBJECT ORIENTED PROGRAMMING USING JAVA

(Biotech, Chemical, CSE, CST, ECE, Mech and PCPR)

Time: 2 hrs Maximum: 50 Marks

The figures in the right hand margin indicate marks. **PART – A: (Multiple Choice Questions)** $(1 \times 10 = 10 \text{ Marks})$ Q.1. Answer ALL questions [CO#] [PO#] a. Features of Java language is CO-1 PO-1 (i) Object Oriented (ii) Portable (iii) Multithreaded (iv) All the above b. Which of these data types is used to store command line arguments? CO-1 PO-2 (i) Array (ii) Stack (iii) String (iv) Integer The -----data types include Boolean, char, byte, short, int, long, float and CO-1 PO-2 double. (i) primitive (ii) Non Primitive (iii) Both (a) and (b) (iv) None d. Which method can be defined only once in a program? CO-2PO-3 (i) main method (ii) finalize method (iii) static method (iv) private method e. Which keyword is used for accessing the features of a package? CO-2 PO-2 (i) package (ii) import (iii) extends (iv) export f. What is the process of defining two or more methods within same class that have same CO-2 PO-2 name but different parameters declaration? (i) method overloading (ii) method overriding (iii) method hiding (iv) none of the mentioned PO-1 g. How many threads can be executed at a time? CO-3 (i) Only one thread (ii) Multiple threads (iii) Only main (main() method) thread (iv) Two threads h. Which of these classes is used to read characters and strings in Java from console? CO-3 PO-1 (i) Buffered Reader (ii) String Reader (iii) Buffered Stream Reader (iv) Input Stream Reader i. What does AWT stands for? CO-4 PO-1 (i) All Windows Tool (ii) All Writing Tools (iii) Abstract Window Toolkit (iv) Abstract Writing Toolkit Before we try to write applets, we must make sure that Java is installed properly and also CO-4 PO-2 ensure that either the java is installed properly and also ensure that either the java or a java-enabled browser is available.

(iii) applet runner()	(iv) browser viewer()		
PART – B: (Short Answer Questions)		$(2 \times 5 = 10)$	Marks)
Q.2. Answer ALL questions		[CO#]	[PO#]
a. How do you Print "Welcome to GIET University" in Java?		CO-1	PO-1

(ii) applet viewer()

PO-2

PO-2

PO-1

PO-2

CO-1

CO-2

CO-3

CO-4

(i) viewer()

b.

c.

List out the Logical Operators available in Java.

d. What is the difference between thread and process?

e. Write down any four components available in Java.

Define the term Unboxing.

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PART – C: (Long Answer Questions)	$(6 \times 5 = 30 \text{ Marks})$

Answer ANY FIVE questions		Marks	[CO#]	[PO#]
3.	List out the features of Object Oriented Programming.	(6)	CO-1	PO-1
4.	Write short note on : i) Data types in Java ii) Buffered Reader class.	(6)	CO-1	PO-2
5.	What do you mean by Constructor? What are the different types of Constructor available? Write a Java code for Constructor overloading.	(6)	CO-2	PO-1
6.	What is inheritance? List out its types. Write a Java program to implement single inheritance concept.	(6)	CO-2	PO-1
7.	What is synchronization? Explain inter thread communication in Java.	(6)	CO-3	PO-1
8.	What do you mean by streams in Java? Give a brief note on Input Output Stream in Java?	(6)	CO-3	PO-1
9.	Why do we use Adapter Classes in Java? Explain.	(6)	CO-4	PO-3
10.	What is an Applet? Explain the life cycle of an Applet.	(6)	CO-4	PO-1

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