# **GURU NANAK INSTITUTE OF TECHNOLOGY**

# An Autonomous Institute under MAKAUT

#### 2021

# OBJECT ORIENTED PROGRAMMING USING JAVA (Backlog) IT404

**TIME ALLOTTED: 3 HOURS** 

**FULL MARKS: 70** 

The figures in the margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable

#### GROUP - A

### (Multiple Choice Type Questions)

Answer any *ten* from the following, choosing the correct alternative of each question:  $10 \times 1 = 10$ 

Ansv	wer any	ten from the following, choosing the correct alternative of ea	cn question:	10×1=10
			Marks	CO No
1.	(i)	What is the initial state of a thread when it is created and started?  a) Wait b) Running c) Ready	1	CO4
	(ii)	<ul> <li>d) Sleep</li> <li>Which of this statement is incorrect?</li> <li>a) All object of a class are allotted memory for the all the variables defined in the class</li> <li>b) If a function is defined public it can be accessed by object of other class by inheritation</li> <li>c) main() method must be made public</li> <li>d) All object of a class are allotted memory for the methods defined in the class</li> </ul>	1	CO1
	(iii)	What would be the behaviour if this() and super() used in a method?  a) Runtime error b) Throws exception c) compile time error d) Runs successfully	1	CO2
	(iv)	What is the return type of Constructors?  a) int  b) float  c) void  d) none of the mentioned	1	CO1
	(v)	Which of these is correct way of calling a constructor having no parameters, of superclass A by subclass B?  a) super(void); b) superclass.(); c) super.A(); d) super();	1	CO1

## B.TECH/IT/EVEN/SEM-IV/IT404/R16/2021

a) Compilation error b) Runtime error c) Compilation and runs successfully d)Only String return type is allowed  (vii) Which of the below is invalid identifier with the main method? a) Public b) Static c) Private d) final  (viii) What is the process of defining more than one method in a class differentiated by method signature? a) Function overriding b) Function overloading c) Function doubling d) None of the mentioned  (ix) Which of these classes are used by character streams for input and output operations? a) InputStream b) Writer c) ReadStream d) InputOutputStream (x) What is multithreaded programming? a) It's a process in which two different processes run simultaneously b) It's a process in which two or more parts of same process run simultaneously c) It's a process in which many different process are able to access same information d) It's a process in which a single process can access information from many sources  (xi) Which of these methods is a part of Abstract Window Toolkit (AWT)? a) display() b) paint() c) drawString() d) transient()  (xii) Thread priority in Java is? a) Integer b) Float c) Double d) long  GROUP - B  (Short Answer Type Questions)  Answer any three from the following: 3×5=15	(vi)	What would be behaviour if the constructor has a return	1	CO1				
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Answer any <i>three</i> from the following: $3 \times 5 = 15$								
Marks CO No								
			Marks	CO No				
Write a Java program that to calculate volume of sphere 5 CO4 using inheritance			5	CO4				

2.

## B.TECH/IT/EVEN/SEM-IV/IT404/R16/2021

3.		Explain the use of ' <b>this</b> ' keyword and the ' <b>super</b> ' keyword in Java programming.	5	CO3
4.		Illustrate with example object and array of object	5	CO3
5.	(a) (b)	Write a program to reverse a String using String class. How does String class differ from String buffer?	3 2	CO3 CO3
6.	(a)	What is byte code?	1	CO1
	(b)	Explain "public static void main (String [] args)" in java.	2	CO1
	(c)	Why Java is called platform independent language?	2	CO1
		GROUP – C (Long Answer Type Questions) Answer any <i>three</i> from the following: 3×15=45		
			Marks	CO No
7.	(a)	What is an exception? Explain the principle of exception handling with programming example.	6	CO3
	(b)	Explain the difference between Error and Exception.	4	CO2
	(c)	Define User defined exception with example.	5	CO2
8.	(a)	Explain Method Overriding with a suitable example.	6	CO3
	(b)	Define Inheritance and also write down the types of Inheritance.	5	CO1
	(c)	Explain the use of different access specifier used in java	4	CO3
9.	(a)	Write a program to demonstrate the "ArrayIndexOutOfBoundsException".	4	CO3
	(b)	Explain how isAlive() and join() methods are used for Multithreading Program.	6	CO4
	(c)	Why we need Interface? Explain with a suitable example.	5	CO4
10.	(a)	Write a java program that take 5 student's Name, Roll, Stream and Name of College using interface and print it.	5	CO3
	(b)	Write a java program to demonstrate Multithreading concept.	5	CO4
	(c)	Can constructor be overloaded? Explain with proper example.	5	CO1
11.		Short notes(Any three)	3X5=15	
	(a)	Polymorphism	5	CO1
	(b)	Inner class	5	CO2
	(c)	Inheritance	5	CO1
	(d)	Wrapper class	5	CO1
	(e)	JVM	5	CO2