

# P P SAVANI UNIVERSITY

INSTITUTE OF DIPLOMA STUDIES

November 2022

IDIT2010 Object Oriented Concepts & Programming

26.11.2022, Saturday

Time: 10:00 a.m. To 12:30 p.m.

Maximum Marks: 60

**Instructions:**

1. The question paper comprises of two sections.
2. Section I and II must be attempted in separate answer sheets.
3. Make suitable assumptions and draw neat figures wherever required.
4. Use of scientific calculator is allowed.

**SECTION - I**

Q - 1	MCQ/Short Question/Fill in the Blanks (Any Five)	[05]	CO	BTL
(i)	Which package contains the mathematical functions? a) java.lang.math b) java.math.lang c) java.util.math d) java.math.util		C06	1
(ii)	When is the object created with new keyword? a) At run time b) At compile time c) Depends on the code d) None		C03	4
(iii)	Select the valid statement. a) char[] ch = new char(5) b) char[] ch = new char[5] c) char[] ch = new char() d) char[] ch = new char[]		C02	2
(iv)	What is the extension of file having java byte code files? a) .js b) .txt c) .class d) .java		C01	1
(v)	What should be used to add something to the program other than the code? a) Interface b) Selection Statements c) Comments d) Jump Statement		C02	4
(vi)	Define Identifiers		C01	1
(vii)	Find the output of the following code. if(1+1+1+1+1 == 5) System.out.print("True"); else System.out.print("False"); a) True b) False c) Compile error d) None		C03	5

<b>Q - 2 (a)</b>	Define the following (Any five)	[05]		
	a) Garbage collection in Java		C03	1
	b) Array		C01	1
	c) Class		C03	1
	d) Encapsulation		C01	1
	e) Constructor		C03	1
	f) Polymorphism		C01	1
	g) Byte Code		C01	1
<b>Q - 2 (b)</b>	Write a program to print first N numbers in descending order, where N is the user input.	[05]	C02	6
	<b>OR</b>			
<b>Q - 2 (a)</b>	Explain switch - case with syntax and example.	[05]	C02	3
<b>Q - 2 (b)</b>	Write a program to find maximum of three numbers entered by user at runtime.	[05]	C02	6
<b>Q - 3 (a)</b>	Explain relational operators with example.	[05]	C02	5
<b>Q - 3 (b)</b>	Write down the difference between C and Java programming.	[05]	C01	2
	<b>OR</b>			
<b>Q - 3 (a)</b>	Explain Logical operator with example.	[05]	C02	5
<b>Q - 3 (b)</b>	Explain Type casting with example.	[05]	C03	5
<b>Q - 4</b>	Attempt any one/two.	[05]		
<b>(i)</b>	Explain method overriding with Example.		C03	3
<b>(ii)</b>	Write a program to reverse the digit that is taken as input from user.		C02	6
	<b>SECTION - II</b>			
<b>Q - 1</b>	MCQ/Short Question/Fill in the Blanks (Any Five)	[05]		
<b>(i)</b>	Which of the following is a type of polymorphism in Java Programming?		C05	1
	a) Multiple polymorphism			
	b) Compile time polymorphism			
	c) Multilevel polymorphism			
	d) Execution time polymorphism			
<b>(ii)</b>	What will be the output of the following Java program?		C04	5
	class Output			
	{			
	public static void main(String args[])			
	{			
	int arr[] = {1, 2, 3, 4, 5};			
	for ( int i = 0; i < arr.length - 2; ++i)			
	System.out.println(arr[i] + " ");			
	}			
	}			
	a) 1 2 3 4 5			
	b) 1 2 3 4			
	c) 1 2			
	d) 1 2 3			
<b>(iii)</b>	Which of the below is not a Java Profiler?		C01	1
	a) JProfiler			
	b) Eclipse Profiler			



	c) JVM d) JConsole			
(iv)	Which of the following is a superclass of every class in Java? a) ArrayList b) Abstract class c) Object class d) String	C06	1	
(v)	Which of these keywords are used for the block to be examined for exceptions? a) check b) throw c) catch d) try	C07	2	
(vi)	Which one of the following is not an access modifier? a) Protected b) Void c) Public d) Private	C06	4	
(vii)	What is the numerical range of a char data type in Java? a) 0 to 256 b) -128 to 127 c) 0 to 65535 d) 0 to 32767	C02	1	
Q - 2 (a)	Difference between packages and interfaces in Java.	[05]	C06	4
Q - 2 (b)	Explain types of java exception with example?	[05]	C07	1
	<b>OR</b>			
Q - 2 (a)	What is exception and exception handling in java with examples?	[05]	C07	1
Q - 2 (b)	What is final method in java?	[05]	C06	1
Q - 3 (a)	Write a program to String Concatenation.	[05]	C04	6
Q - 3 (b)	Explain scanner class with Example	[05]	C04	2
	<b>OR</b>			
Q - 3 (a)	Explain abstract class with example	[05]	C05	2
Q - 3 (b)	Explain interface with example	[05]	C05	2
Q - 4	Attempt any one/two.	[05]		
(i)	Define package. How to create user defined package? Explain with example.		C06	3
(ii)	Java Program to determine whether a given string is same or not.(Ignore case sensitivity)		C04	6

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CO : Course Outcome Number

BTL : Blooms Taxonomy Level

Level of Bloom's Revised Taxonomy in Assessment

1: Remember	2: Understand	3: Apply
4: Analyze	5: Evaluate	6: Create