Total No. of printed pages = 6

END SEMESTER EXAMINATION – 2022

Semester: 5th

Branch: Computer Engg.

Subject Code: CO-505

JAVA PROGRAMMING

Full Marks -70

Time - Three hours

The figures in the margin indicate full marks for the questions.

Instructions:

- 1. All questions of PART-A are compulsory.
- 2. Answer any five questions from PART-B.

PART - A

Marks - 25

1.	Fill	in the blanks: $1 \times 10 = 10$
	(a)	A class which inherits the properties is known as
	(b)	interprets the bytecode into machine code.

[Turn over

	\ 9-1\
(c)	A is a user defined blueprint or
	prototype from which objects are created.
(1)	The Law is a machanism to
(d)	in Java is a mechanism to encapsulate a group of classes, sub packages
	and interfaces.
	and interfaces.
(e)	We can use method to create
	new file in JAVA.
	August Sant I - Sant I
(f)	An is an unwanted or unexpected
	event, which occurs during the execution of
	a program.
(g)	is a Java feature that allows
	concurrent execution of two or more parts
	of a program.
	and the American State of the S
(h)	To connect to other machine we need a connection.
	connection.
(i)	Swing is a part of
	is the set
(j)	is an standard API specification
	developed in order to move data from
	frontend to backend.

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- 2. Write whether true or false : $1 \times 10 = 10$
 - (a) In single inheritance, one class cannot inherit the properties of another.
 - (b) Platform independence is one of the main advantages of Java.
 - (c) A class can not be public or has default access.
 - (d) Package names and directory structure are closely related.
 - (e) File class delete method is used to delete a file or an empty directory.
 - (f) Error indicates conditions that a reasonable application might try to catch.
 - (g) A thread begins its life inside run() method.
 - (h) Sockets are used to establish the connection between client and server.
 - (i) JFC stands for Java Fundamental Classes.
 - (j) JDBC is an standard API specification.

(a)	Class declarations in JAVA consists of		
	(i) Modifier	(ii) Class nam	e
Chart of	(iii) Body	(iv) All of the	ese
(b)	Which of the following command is not a proper ways to create object of a class?		
a see pro-	(i) Test $t = new$	Test ();	
s deleter	(ii) Test t 2 = (Test)t1.clone();		
	(iii) Test = new T	'est();	
G s Volderow	(iv) Test obj =	Manhaothre sec	
o och pa	1. P. J.	Name ("com.p1.Test	"). new
(c)	KEOD DUT ESTEDITOR	owing is not an integ	ger data
CENTRAL WIBRA	(i) Byte	(ii) Short	
* ALEVALINA CONTROL	(iii) Long.	(iv) None of	these
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3. Choose the correct answers : $1 \times 5 = 5$

	(d)	Which of the following is not a valid access specifier?					
		(i) Void	(ii) Public				
	-	(iii) Protected	(iv) None of	f these			
- N	(e)	Class loader has the following activity					
		(i) Loading	(ii) Linking	1.78			
*		(iii) Initialization	(iv) All of t	these.			
		PART – Marks –		(mate). 2 v (d)			
3.	3. Define OOP. Explain the basic features/principles of OOP. 1+8=9						
4.	(a)	Who is the father features of JAVA.	of JAVA?	Write five 1+5=6			
	(b)	Briefly explain v Independent?	vhy Java is	Platform 3			
5.	(a)	Define package. Wood JAVA packages.	rite and explain	n the types 1+4=5			
	(b)	Write and explain to operations in JAVA	he common fil	e handling 4			
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- 6. (a) Briefly explain mechanism of creating threads in JAVA.
 - (b) Differentiate between AWT and Swing. 5
- 7. (a) What is JDBC? Write down the steps involved in connection between Java program and database. 1+5=6
 - (b) Briefly explain the mechanism to establishing socket connection from client side. 3
- 8. (a) Explain the JVM architecture.
 - (b) Write a JAVA program that takes three numbers as input to calculate and print the average of the numbers.
- 9. (a) Differentiate C, C++ and JAVA. 5
 - (b) Differentiate between single and multithreaded program. 4

