COER University

END SEMESTER EXAMINATION, EVEN SEM 2022-23 Time

Total Marks: 100 : 3 hours Program Name : B.Tech. (CSE, AI&ML, Cyber Security) Semester

Course Name : Object Oriented Programming Using JAVA **Course Code: BTCS203** Note: All questions are compulsory. No student is allowed to leave the examination hall before the completion of the

Q. No 1	Attempt Any Four Parts. Each Question Carries 5 Marks.	СО	BI
(a)	What is the purpose of the main() method in a Java program? Explain the syntax for declaring the main() method.	CO 1	2
(b)	Define the operators in Java.	CO 1	1
(c)	Write a Java program to illustrate the concept of class with method overloading.	CO 1	1
(d)	What is the purpose of the new keyword in Java? Provide an example of how it is used to create an object of a class.	CO 1	2
(e)	Explain the concept of command line arguments in Java. Write a Java program to accept two integers as command line arguments and find their sum.	CO 1	2

Q. No 2	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	BL
(a)	Classify the types of inheritance in Java.	CO 2	3
(b)	What is the purpose of the "final" keyword in Java inheritance? Provide an example to		2
(c)	What is an abstract class in Java? How is it different from a regular class? Write an	1	
(d)	What is a package in Java? How does it help in organizing and managing Java classes? Write an example of a Java package.	1	2
(e)	Write a program in java to demonstrate different uses of 'this' keyword.	CO 2	1

a N. a	Attempt Any Four Parts. Each Question Carries 5 Marks.	CO	BL
Q. No 3	Attempt Any Pour Parts. Lacif Question of Love and explain their usage	CO 3	3
(a)	Assign the various built-in exceptions in Java and explain their usage.	CO 3	3
(b)	Assign the various thread states in Java multithreading and explain their significance.	CO 3	1
(c)	Define Runnable interfaces in Java multithreading and explain their usage.		2
(d)	How can exception handling be used to provide better user experience in a graphical user interface (GUI) application? Give an example.		
(e)	What is the difference between a process and a thread? How is multithreading achieved	CO 3	2
, ,	in Java?		

	Attempt Any Two Parts. Each Question Carries 10 Marks.	CO	BL
Q. No 4	Generate a simple JDBC program that establishes a connection to a database and	CO 4	6
•	executes a query. Explain how to use the next() method to iterate through a Result Set in JDBC.	CO 4	2
(b)	Explain how to use the next() method to herace unbugging re-	CO 4	2
(c)	Explain the connectivity model in Java. What are the connectivity model? How does it work to connect Java applications to databases?		

	Attempt Any Two Parts. Each Question Carries 10 Marks.	CO	BL	
Q. No 5	Design and create a simple AWT application with any five Components.	CO 5	6	
(a)	Design and create a simple Aw 1 application with any	CO 5	2	
(b)	Discuss with event handling concept in details. Explain how to add and remove various types of controls such as Labels, Buttons, Explain how to add and remove various types of controls such as Labels, Buttons,	CO 5	2	
(c)	Explain how to add and remove various types of controls such as Explain how to add and remove various types of controls such as Explain how to add and remove various types of controls such as Explain how to add and remove various types of controls such as Explain how to add and remove various types of controls such as Explain how to add and remove various types of controls such as Explain how to add and remove various types of controls such as Explain how to add and remove various types of controls such as Explain how to add and remove various types of controls such as Explain how to add and remove various types of controls such as Explain how to add and remove various types of controls such as Explain how to add and remove various types of controls such as Explain how to add and remove various types of controls such as Explain how to add and remove various types of controls such as Explain how to add and remove various types of controls such as Explain how to add and remove various types of controls such as Explain how to a such as Explain how the Explain how the Explain how to add and remove various types of controls as Explain how the Explain ho			
(-/	Explain how to add and remove various types of control of the cont			
	code examples for each contro! type.			

----End of Paper