PRN:		Course Code :	BCA205

Second Year **BCA** End Semester Examination Summer 2024

Programming Using Java

Day and Date: Mon 27 MAY 2024 Max Marks: **100**

Time : 02:00PM To 05:00PM Duration: **03** hrs

Instructions: All questions are compulsory.

			Marks	Bloom's Level	CO
Q.1		**Attempt the following**			
	a)	List some key features of the JAVA language? and Describe what the Java Virtual Machine does in simple terms.	08	L1	CO1
	b)	How would you explain the difference between static and non-static inner classes in Java?	08	L1	CO1
		OR			
	b)	Name a primitive data type in Java. What does typecasting refer to in Java?	08	L1	CO1
Q.2		**Attempt the following**			
	a)	Explain the difference between character-oriented and byte-oriented streams.	08	L2	CO2
	b)	How do you read basic data types from the keyboard in Java?.	08	L2	CO2
		OR			
	b)	Could you give an example of using streams for both reading and writing data in Java?	08	L2	CO2
Q.3		**Attempt any two from the following**			
	a)	What are some common components used in Swing for building GUIs?	08	L3	CO2
	b)	Describe what an applet is and how it's used in Java programming..	08	L2	CO2
	c)	Can you name some classes that support event handling in Java? Explain	08	L3	CO2
Q.4		**Attempt any two from the following**			
	a)	Can you explain what different states a thread can be in?	08	L3	CO3
	b)	How would you handle deadlock situations in Java threads?.	08	L4	CO3
	c)	What is the purpose of thread groups in Java?	08	L2	CO3
Q.5		**Attempt any Two of the following**			
	a)	Can you explain what client-server programming means in simple terms?	09	L2	CO4
	b)	What is the difference between concurrent and iterative server design?	09	L4	CO4
	c)	How would you describe the process of communication between a client and server in simple terms?	09	L3	CO4
Q.6		**Attempt any Two of the following**			
	a)	What is JDBC-ODBC and how does it relate to database connectivity in Java?	09	L3	CO4
	b)	Describe what a result set is used for in JDBC. Explain with example.	09	L3	CO4
	c)	Can you explain what a connection is in JDBC? Give example.	09	L2	CO4

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