24CS-BCAP-MA-04-08001

Seat No. _____

BACHELOR OF COMPUTER APPLICATION-CS Examination

BCA - CS SEMESTER-4 APRIL 2026 (NEP) APRIL - 2026

CS-22: PROGRAMMING WITH JAVA

Faculty Code : 11

Subject Code : 24CS-BCAP-MA-04-08001

Time : 2 Hours] **[Total Marks : 50**

Q.1 (A) Attempt the following. 3

(1) What is JVM?

(2) Give the full form of JCL.

(3) Java original name was _____.

Q.1 (B) Attempt any one of the following. 2

(1) What is type casting?

(2) What is the main() method in Java?

Q.1 (C) Atempt any one of the following. 5

(1) Explain data types in Java with examples.

(2) Explain the difference between class and object with examples.

Q.2 (A) Attempt the following. 3

(1) What are the two categories of packages in Java?

(2) In which package is the Object class present?

(3) Which access modifier provides the widest scope?

Q.2 (B) Attempt any one of the following. 2

(1) What is an Interface in Java?

(2) Give the rules for Method Overriding.

Q.2 (C) Attempt any one of the following. 5

(1) What are Wrapper classes? Discuss their use and the concepts of Autoboxing andUnboxing.

(2) Discuss the Java Collection framework components: Vector, LinkedList, and Stack.

Q.3 (A) Attempt the following. 3

(1) Which keyword is used to handle an exception?

(2) Which method is used to start the execution of a thread?

(3) What is the function of the flush() method?

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Q.3 (B)	Attempt any one of the following.	2
	(1) What is Synchronization and why is it needed?	
	(2) What are 'Bridge Classes' in Java I/O?	
Q.3 (C)	Attempt any one of the following.	5
	(1) Explain the Life Cycle of a Thread with a state transition diagram.	
	(2) Explain the StreamTokenizer class and its various constants.	
Q.4 (A)	Attempt the following.	3
	(1) JavaFX stands for _____.	
	(2) HSB stands for _____.	
	(3) RGBA stands for _____.	
Q.4 (B)	Attempt any one of the following.	2
	(1) Explain the Life Cycle methods of a JavaFX application.	
	(2) What is Property Binding? Name two types of bindings available in JavaFX.	
Q.4 (C)	Attempt any one of the following.	5
	(1) Describe the Event Handling mechanism in JavaFX.	
	(2) Discuss the types of animations available in JavaFX.	
Q.5 (A)	Attempt the following.	3
	(1) Which JavaFX package contains the UI control classes.	
	(2) Which method is used to set placeholder text in a TextField?	
	(3) Which class is required to visually display video content in JavaFX?	
Q.5 (B)	Attempt any one of the following.	2
	(1) Explain the difference between TextField and TextArea.	
	(1) Explain the purpose of a CellFactory in a ListView.	
Q.5 (C)	Attempt any one of the following.	5
	(1) Describe the different types of JavaFX Properties.	
	(2) Explain the Labeled class as a common superclass. Discuss its key features such astext, graphics, and CSS styling.	

::: END OF EXAM :::

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