



II Semester B.C.A. Examination, June/July 2025 (SEP)

24 BCA 22: OBJECT ORIENTED PROGRAMMING USING JAVA

Time: 3 Hours

Max. Marks: 80

Instruction: Answer all questions.

SECTION - A

Answer any eight of the following :

 $(2 \times 8 = 16)$

- 1) Define object-oriented programming.
- 2) What are wrapper classes in Java?
- 3) Write differences between C and Java.
- 4) What is method overloading?
- 5) List any two built-in packages in Java.
- 6) What is type casting?
- 7) What is the use of 'this' keyword in Java?
- 8) Differentiate between applet and application.
- 9) Name any two event listener interfaces in Java.
- 10) What is a checked exception? Give an example.

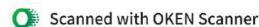
SECTION - B

II. Answer any four of the following:

 $(6 \times 4 = 24)$

- 11) Explain different operators in Java with examples.
- 12) Explain types of inheritance supported in Java with examples.
- 13) What is an interface ? Explain with an example.
- 14) Illustrate with an example the use of try-catch-finally for exception handling.
- 15) Explain life cycle of a thread with a diagram.
- 16) What are the different types of I/O streams in Java?

P.T.O.





SECTION - C

II. Ans	swer any five of the following:	(8×5=40)
17)	a) Explain the structure of a basic Java program with an example.	4
	b) Describe any four methods of string class.	4
18)	a) Write a Java program to demonstrate branching using if-else.	4
	b) Explain different types of loops in Java with examples.	4
19)	a) What are packages in Java? Explain their advantages.	4
	b) How do you create and import a user-defined package in Java?	4
20)	a) Explain any two layout managers in Java with examples.	4
	b) Describe the use of buttons and labels in Java GUI programming.	4
21)	a) Explain the applet life cycle methods with their significance.	5
	b) Write a simple Java applet code to display "Hello, Java Applet".	3
22)	 a) Differentiate between multithreading and multitasking. 	4
	b) Explain how synchronization is implemented in Java with an exam	nple. 4
23)	a) What is generic programming in Java? Give an example.	4
	b) Discuss the importance of Java Beans in Java Programming.	4