II Semester B.C.A. Examination, June/July 2025
(SEP)
24 BCA2 : OBJECT ORIENTED PROGRAMMING USING JAVA

Time : 3 Hours   Max. Marks : 80

Instruction : Answer all questions.

SECTION – A

I. Answer **any eight** of the following :   (2×8=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 :   (6×4=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 ?

SECTION – C

III. Answer **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 example. 4

23) a) What is generic programming in Java ? Give an example. 4

    b) Discuss the importance of Java Beans in Java Programming. 4

———————