

S.C.No.—2214502

B. C. A. EXAMINATION, Dec. 2024

(Fifth Semester)

(Batch 2022-23)

(Main)

PROGRAMMING IN JAVA

22BCA502

*Time : 3 Hours**Maximum Marks : 80*

Note : Attempt *Five* questions in all, selecting *one* question from each Unit. Q. No. 1 is compulsory. All questions carry equal marks.

1. (a) What is Java Virtual Machine (JVM) ? 2
- (b) Define the term 'Keyword'. 2
- (c) What are Abstract classes ? 2
- (d) Explain Array. 2

- (e) Differentiate Run-Time and Compile-Time polymorphism. 2
- (f) What are Interfaces ? 2
- (g) Why is Inheritance used ? 2
- (h) What are the advantages of a Java Package ? 2

Unit I

2. Differentiate between : **4×4=16**
 - (a) Procedural Programming and Object-oriented Programming.
 - (b) Keywords and Identifiers
 - (c) Logical operators and Bitwise operators
 - (d) Java Virtual Machine and Java Development Kit (JDK).
3. (a) Why are switch statements required ?
What is the syntax of the switch statements ? Draw its flow diagram. 8
- (b) Explain Do-while loop with a suitable example. How does it differ from while statement ? 8

Unit II

4. (a) Explain constructor. Also explain different types of constructor by using an example. 8
- (b) Explain various steps to create an object. 8
5. (a) Explain various string operations by using an example. 8
- (b) How can strings be created using : 4×2=8
- (i) String class
- (ii) String Buffer class ?

Unit III

6. (a) Explain the concept of Method overloading with example. 8
- (b) Distinguish between static binding and dynamic binding. 8

7. (a) Explain various types of Inheritance by using example. 10
- (b) What are the visibility modes ? Explain in detail. 6

Unit IV

8. What do you mean by Thread ? Explain Java Thread model in detail. 16
9. (a) Explain various types of Exceptions in Java. 8
- (b) Explain various steps to create and implement an user defined package in Java by using example. 8

<https://www.cbluonline.com>

Whatsapp @ 9300930012

Send your old paper & get 10/-

अपने पुराने पेपर्स भेजे और 10 रुपये पायें,

Paytm or Google Pay से