

FACULTY OF SCIENCE

B.Sc. (CBCS) V Semester (Backlog) Examination, June / July 2022

**Subject: Computer Science
Paper – V : Programming in Java**

Time: 3 Hours

Max. Marks: 80

PART – A

Note: Answer any eight questions.

(8 x 4 = 32 Marks)

1. Define Constructor and Destructor. What is the difference between Constructor and a method?
2. Write short notes on Garbage Collection in java.
3. Discuss different Data types in Java.
4. Discuss the keywords 'extends' and 'implements' with syntax.
5. Write about the keywords used in Exception Handling.
6. Define Array. Explain One-Dimensional and Two-Dimensional Arrays with syntax.
7. Discuss Thread Priority in multithreading.
8. Write short notes on Scanner Class.
9. Explain Daemon Thread with an example.
10. Discuss the Button and Label Components.
11. What is an event and describe the event handling mechanisms in Java?
12. What is Thin Driver? Which driver is fast among the four JDBC drivers give the reason?

PART – B

Note: Answer all the questions.

(4 x 12 = 48 Marks)

13. (a) Explain the features of Java Language. Discuss different Visibility controls in java.
(OR)
(b) Explain types of Constructors with help of a java program.
14. (a) Explain types of inheritance with a suitable java program.
(OR)
(b) What is a Package? Explain Creating and using a package in detail.
15. (a) Explain the concept of streams and its byte stream classes in detail.
(OR)
(b) (i) What is synchronization? Give its types and explain.
(ii) Write a java program to implement inter thread communication.
16. (a) (i) What is the role of event listeners in event handling? List the Java event listeners.
(OR)
(ii) Write an applet to display the mouse cursor position in that applet window.
(b) (i) What JDBC? Explain the role & responsibility of JDBC API.
(ii) Explain the methods of the ResultSet interface in JDBC.