FACULTY OF SCIENCE
B.Sc. (CBCS) V - Semester Examination, November/December 2024

Subject : Computer Science
Paper – V : Programming in Java

Time: 3 Hours

Max. Marks: 80

PART – A

Note : Answer any Eight questions. (8x4=32 Marks)

1. Write a short note on Type Casting in Java

2. Define Class? Explain with an example how to create a class in Java

3. Write a program in java to print even numbers between 20 to 80 using for loop

4. Write about inner classes.

5. Explain usage of keyword "final" with variables, methods and classes.

6. Write about access protection in packages.

7. Write about Scanner Class.

8. What is a Thread? Write about Thread Priority.

9. Write an example program for user-defined exception.

10. What is an Applet? Write a program using Applet to display "All the Best".

11. Difference between AWT and Swing.

12. What are the various Layouts and why are they needed?

PART – B

Note : Answer all the questions. (4x12=48 Marks)

13. a) Explain conditional statements in java with suitable programs.

OR

b) Explain with example program process of creation of class with data and methods and then objects calling those methods

14. a) Explain (i) Method Overloading. (ii) Method Overriding

OR

b) What is an Array? What are its types? Explain how do you create them

15. a) Write in detail the Lifecycle of Thread. Write a program demonstrating Thread methods

OR

b) Explain with example program usage of BufferedInputStream and BufferedOutputStream classes

16. a) What is an Event? Demonstrate mouse events with a program

OR

b) What are various AWT components? Write a program making use of any five components

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