

**2023/TDC(CBCS)/ODD/SEM/
CSCHCC-301T/085**

TDC (CBCS) Odd Semester Exam., 2023

COMPUTER SCIENCE

(Honours)

(3rd Semester)

Course No. : CSCHCC-301T

(Programming in Java)

Full Marks : 50

Pass Marks : 20

Time : 3 hours

*The figures in the margin indicate full marks
for the questions*

SECTION—A

Answer *ten* questions, selecting any *two* from each

Unit : 2×10=20

UNIT—I

1. What is byte code?
2. Why is java called robust and secured?
3. Explain switch statement with java code.

(2)

UNIT—II

4. What is method overloading?
5. What do you mean by garbage collection?
6. How is 2D array declared and initialized?

UNIT—III

7. What is method overriding?
8. Define autoboxing and unboxing.
9. How can interface be distinguished from class?

UNIT—IV

10. What is built-in exception? Give an example.
11. What are the differences between thread class and runnable interface?
12. What is JDBC driver?

UNIT—V

13. What is an applet?

(3)

14. Write down the differences between AWT and swing.
15. How does action listener work in Java?

SECTION—B

Answer five questions, selecting any one from each
Unit : 6×5=30

UNIT—I

16. Explain the features of Java.
17. Write a Java program and explain its various parts.

UNIT—II

18. What is constructor? Discuss the different types of constructors with Java program.
19. Explain the following : 2×3=6
 - (a) Byte and character stream
 - (b) System.in and system.out
 - (c) Scanner class

UNIT—III

20. What is inheritance? What are the different types of inheritance? Why does Java not support multiple inheritance? $2+2+2=6$
21. How does Java implement the concept of interface? Explain with code segment.

UNIT—IV

22. What is exception handling? Write a program to illustrate the concept of exception handling.
23. Write a simple Java program to connect to a database using JDBC.

UNIT—V

24. Write down the steps involved in developing and running an applet program. Explain with an example.
25. Explain the different layout managers used in Java.

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