

**2023/TDC(CBCS)/ODD/SEM/  
BCACC-501T/021**

**TDC (CBCS) Odd Semester Exam., 2023**

**COMPUTER APPLICATIONS**

**( 5th Semester )**

Course No. : BCACC-501T

**( 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. Why Java is called platform independent language?
2. What are the primitive data types used in Java?

3. "Public static void main (string args [])".  
What is the meaning of string args []?

UNIT—II

4. What is CLASSPATH in Java?
5. Write down the difference between class and interface.
6. How constructors are overloaded in Java? Give syntax.

UNIT—III

7. Define checked and unchecked exceptions in Java. Give example.
8. Write down the purpose of stream Tokenizer class. Give example.
9. Why run() and start() methods are used?

UNIT—IV

10. What is the difference between applet and JApplet?
11. What is MVC model?
12. What is Java foundation class?

UNIT—V

13. What is JDBC-ODBC bridge?
14. Write down the purpose of Java.sql package.
15. Write down the purpose of JDBC ResultSet.

SECTION—B

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

UNIT—I

16. (a) What is Java expression? Give example. 2  
(b) How different types of arrays are declared and initialized? Explain with syntax. 4

17. Write a Java program to sort  $n$  elements in one-dimension array.

UNIT—II

18. Explain how different types of interfaces are implemented in Java. Give suitable examples.

19. Define package in Java. Write down the steps to create user defined packages in Java. Write down the purpose of Java.in and Java.util package. 2+2+2=6

UNIT—III

20. Describe the complete life cycle of a thread.
21. Write a program in Java to illustrate exception handling.

UNIT—IV

22. Discuss different layout managers in detail.
23. How user defined parameters are passed to an applet? Explain with example.

UNIT—V

24. Describe the JDBC architecture.
25. How is statement created and executed in JDBC? Explain with suitable code.

\*\*\*