

2022/TDC/ODD/SEM/BVOCGE-303T/447

TDC (CBCS) Odd Semester Exam., 2022

B.Voc (Information Technology)

(3rd Semester)

Course No. : BVOCGE-303T

(Introduction to Java Programming)

Full Marks : 70

Pass Marks : 28

Time : 3 hours

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

Answer one question from each Unit

UNIT—I

1. (a) Describe the basic features of Java Programming. Distinguish between Java and C language. 4+4=8
(b) Distinguish between object and class w.r.t. Java. 6
2. (a) Explain Java program structure with example. 10
(b) Briefly explain JVM. 4

UNIT—II

3. (a) Explain constructor in Java with example. 4
 (b) Define interface. How is interface implemented in Java? Explain with code. 10
4. (a) Briefly explain static member. When do you declare member of a class 'static'? 5
 (b) Write a simple Java program to calculate area of a rectangle. 9

UNIT—III

5. (a) Explain the following : 4
 (i) Compile-time errors
 (ii) Run-time errors
 (b) What is an exception? How do you define try and catch block in Java? 10
6. Describe the complete life cycle of a thread. 14

UNIT—IV

7. (a) Define AWT. 2
 (b) Explain the following with examples : 12
 (i) AWT by inheritance
 (ii) AWT by association

8. (a) Distinguish between local applet and remote applet. 2
 (b) Define init(), start(), and paint() methods associated with Java Applet. 6
 (c) Explain general format of an applet code in Java. 6

UNIT—V

9. (a) What are the methods to perform transaction management in JDBC? Explain. 9
 (b) Write down the registration method of the following components : 5
 (i) Button
 (ii) Text field
 (iii) Text area
 (iv) Checkbox
 (v) Choice
10. (a) Differentiate between foreground events and background events. 4
 (b) Write a Java program to represent the connectivity between Java program and database. 10
