2019/TDC/ODD/SEM/BVOGE–303/239

TDC Odd Semester Exam., November—2019

B. Voc (Information Technology)

(3rd Semester) .

Course No. : BVO-GE–303

(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)* What are the primitive data types in Java? Give examples of each. 4

   (b) Why is Java known as platform-independent language? 3

   (c) Explain public static void main (string args[]) in Java. 3

   (d) Write a Java program to print 'Hello World' 10 times. 4

(Turn Over)

(2)

2. *(a)* What are the different control statements in Java? Give examples of each. 10

(b) Explain automatic type conversion and type casting with a suitable example. 4

UNIT—II

3. *(a)* Compare between method overloading and method overriding with a code segment. 4

(b) Define the terms 'final', 'finally' and 'finalize'. 3

(c) Distinguish between abstract class and interface. 4

(d) What is package in Java? Give two examples of Java API packages. 3

4. *(a)* What is inheritance? Discuss about different types of inheritances with code segments. 10

(b) Explain the following : 2+2=4

  (i) Polymorphism

  (ii) Static method

(3)

UNIT—III

5. *(a)* Explain exception handling in Java with a program. 7

(b) Explain stream buffer class and string buffer methods. 4

(c) What is the significance of random access file? 3

6. *(a)* Describe the complete life cycle of a thread. 5

(b) Discuss stream tokenizer in detail. 3

(c) Write a program to illustrate multi-threading. 6

UNIT—IV

7. *(a)* Discuss the steps involved in developing and running an applet. 6

(b) What is lightweight component? Why are swing components called light-weight component? 4

(c) Explain layout and layout manager. 4

(4)

8. *(a)* Write a simple applet program that displays a message 'welcome'. 5

(b) Discuss about swing-based GUI. 4

(c) What are the differences between 'awt' and 'swing' in Java? 5

UNIT—V

9. *(a)* What is JDBC? How is a statement created and executed in JDBC? 7

(b) Write a program to illustrate Java database connectivity. 7

10. *(a)* Discuss about JDBC driver manager. 4

(b) What are the event handling methods? How does an event handler work? 5

(c) Discuss about even handling in text field and radio button. 5

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