CENTRAL LIBRARY N.C.COLLEGE

2020/TDC(CBCS)/ODD/SEM/ BVOCGE-303T/447

TDC (CBCS) Odd Semester Exam., 2020 held in March, 2021

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

SECTION-A.

Answer any ten questions of the following: 2×10=20

- 1. Mention any two basic features of Java.
- 2. What is byte code?
- 3. What is the difference between while and do-while statement in a Java program?
- **4.** Explain switch statement with a Java program.

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(Turn Over)

- 5. What is polymorphism?
- 6. What is method overloading?
- 7. What is Just-in-time (JIT) compiler?
- 8. What do you mean by garbage collection?
- 9. Write a note on the string class.
- **10.** Explain the purpose of the string buffer class.
- 11. How can interfaces be distinguished from classes?
- 12. What is an exception in Java?
- 13. Write how to start a thread.
- **14.** Why are the AWT components called heavy weight components?
- 15. What is grid layout?
- 16. Write a note on radio buttons,
- 17. What is JDBC driver?

- **18.** What is the function of JDBC connection interface?
- 19. What are the JDBC API components?
- 20. What are the differences between execute query and execute update?

SECTION—B

Answer any five questions of the following:

10×5=50

- 21. (a) Write down the basic features of Java.
 - (b) What is object-oriented programming (OOP)? What are the advantages of an OOP paradigm? 5+5=10
- 22. (a) Define different data types in Java.
 - (b) Write a Java program to swap a number without using a third variable. 4+6=10
- 23. What is a constructor? Write a program to illustrate constructor overloading in Java.

2+8=10

- 24. What is exception handling? Write a program to illustrate exception handling. 2+8=10
- **25.** (a) Explain multithreaded programming in Java.

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(4)

| | (b) | Explain the method getNa | | |
|---------|-----|---|----------|--|
| | | setPriority(int newPriority), yield() | . 4+6=10 | |
| 26. | Exp | olain the following: | 2×5=10 | |
| | (a) | Text stream | | |
| | (b) | Stream tokenizer | | |
| | (c) | Buffered stream | | |
| | (d) | Print stream | | |
| | (e) | String buffer | | |
| 27. | pro | What is an applet in Java? Write a Java program to print "Welcome to the world of ava" in an applet in five different colors. 2+8=10 | | |
| 28. | Wha | What are the controls that AWT supports? What are the deficiencies in AWT that led to the introduction of Swing in Java? 4+6=10 | | |
| 29. | | Write a program to illustrate Java database connectivity. | | |
| 30. | Wri | te short notes on the following: | 2×5=10 | |
| | (a) | Choice list | | |
| • • • • | (b) | Radio button | | |
| | (c) | Prepared statement | | |
| - | (d) | Callable statement | • | |
| | (e) | Statement | | |
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