

D 11197

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Name.....

Reg. No.....

FIFTH SEMESTER B.Sc. DEGREE EXAMINATION, NOVEMBER 2016

(CUCBCSS-UG)

Computer Science

BCS 5B 09—JAVA PROGRAMMING

Time : Three Hours

Maximum : 80 Marks

Part A

Answer all questions.

Each question carries 1 mark.

1. Which one is blue print for creating concrete realization of abstractions ?
 - (a) Abstractions.
 - (b) Polymorphism.
 - (c) Encapsulation.
 - (d) Global variables.
2. Which of the following operator takes only integer operands ?
 - (a) %.
 - (b) ++ (post increment).
 - (c) ++ (pre increment).
 - (d) None of these.
3. Which of the array declaration and initialization is illegal ?
 - (a) `int []a[]=new int[4][4].`
 - (b) `int a[][]=new int[4][4].`
 - (c) `int a[][]=new int[4] [].`
 - (d) `int a[][]=new int[] [4].`
4. When we implement the Runnable interface, we must define which of the following methods ?
 - (a) `start()`.
 - (b) `init()`.
 - (c) `run()`.
 - (d) `main()`.
5. Which of the following keyword are used to control access to a class member ?
 - (a) `default`.
 - (b) `abstract`.
 - (c) `protected`.
 - (d) `public`.
6. Which of the following is not an abstract class or interface ?
 - (a) `InputStream`.
 - (b) `PrintStream`.
 - (c) `Reader`.
 - (d) `DataInput`.
7. The `setBackground()` method is part of the class _____.
 - (a) `Graphics`.
 - (b) `Applet`.
 - (c) `Component`.
 - (d) `Container`.

Turn over

8. In which class is the method `setVisible()` first defined ?
- (a) Component. (b) Container.
(c) Window. (d) Frame.
9. Which one of the following is not a source for action event ?
- (a) MenuItem. (b) List.
(c) TextField. (d) Choice.
10. The checkbox object generates ____.
- (a) ActionEvent. (b) AdjustmentEvent.
(c) ItemEvent. (d) None of these.

(10 × 1 = 10 marks)

Part B

Answer all questions.

Each question carries 2 marks.

11. What is the difference between an applet and application program ?
12. What are Daemon Threads ?
13. What is a thread ?
14. Explain SQL Exception class.
15. What is an socket ?

(5 × 2 = 10 marks)

Part C (Short Essays)

Answer any five questions.

Each question carries 4 marks.

16. What are packages ?
17. Explain interfaces with syntax and example.
18. Differentiate throw and throws.
19. Explain Resultset metadata.
20. Explain HTML Applet tag and parameters.
21. Explain try—catch—finally statement.
22. Differentiate deepening conversion and widening conversion.
23. Differentiate various access specifiers in Java.

(5 × 4 = 20 marks)

Part D (Essays)

Answer any five questions.

Each question carries 8 marks.

24. What is finally ? Explain with a suitable example when and how it is used.
25. Explain various control statements in Java.
26. Explain the following (a) String class ; (b) Date class ; (c) String Buffer class ; (d) String Tokenizer class.
27. Explain object and class concepts in Java.
28. Explain the life cycle of a thread.
29. Explain the Delegation Event Model.
30. Write a program to design a digital clock.
31. Explain layout managers.

(5 × 8 = 40 marks)