

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 a 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)