

C81841

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Name.....24.....

Reg. No.....

FOURTH SEMESTER B.C.A. DEGREE EXAMINATION, APRIL/MAY 2015

(UG—CCSS)

Core Course

CA 4B 05—PROGRAMMING IN JAVA

Time : Three Hours

Maximum : 30 Weightage

I. Answer *all* questions :—

- 1 Which of the following are invalid variable names ?
 - (a) One.
 - (b) $n_1 + n_2$.
 - (c) one*.
 - (d) "one".
- 2 Which keyword can protect a class in a package from accessibility by the classes outside the package ?
 - (a) Private.
 - (b) Protected.
 - (c) Final.
 - (d) Don't use any key word.
- 3 Constants are called _____ in java.
 - (a) Numeral.
 - (b) Literals.
 - (c) Variables.
 - (d) None of the above.
- 4 The scope of a variable is restricted to _____ in which they are declared.
 - (a) Block.
 - (b) File.
 - (c) Interface.
 - (d) Package.
- 5 Non printable characters are represented by _____ characters.
 - (a) *.
 - (b) //.
 - (c) /*.
 - (d) Escape sequence.
- 6 The default initial value for a character type is _____.
 - (a) Null.
 - (b) False.
 - (c) Space.
 - (d) None of the above.

Turn over

- 7 Which of the following is a javadoc comment ?
- (a) `//#`. (b) `/*`.
(c) `/**` /. (d) `/**`.
- 8 When we invoke `repaint ()` for a component which method is invoked ?
- (a) `Draw ()`. (b) `Show`.
(c) `Update`. (d) `Paint`.
- 9 A class may be both abstract and final :
- (a) True. (b) False.
- 10 Threads can be created by implementing _____ class.
- (a) `Run`. (b) `Thread`.
(c) `Runnable`. (d) All the above.
- 11 Which of the following methods belongs to `String` class ?
- (a) `Length()`. (b) `CompareTo()`.
(c) `Substring`. (d) All of them.
- 12 It is possible to assign a subclass object to a super class reference.
- (a) True. (b) False.

(12 × ¼ = 3 weight)

II. Short Answer type Questions. Answer all *nine* questions :

- 13 What are the different arguments in `drawRect()` method ?
- 14 What is a vector ? How is it different from an array ?
- 15 What is the use of `import` statement in java ?
- 16 What is thread priority ?
- 17 What is a run time error ?
- 18 What is a stream class ?
- 19 What are the different Java tokens ?
- 20 What is object oriented programming ? How is it differ from procedure oriented programming ?
- 21 Why is java platform independent ?

(9 × 1 = 9 weight)

III. Short Essay or Paragraph Questions :—

- 22 What is inheritance ?
- 23 What is an abstract class ?
- 24 What are the different logical and relational operators in java ?
- 25 Explain the basic java program structure.
- 26 Demonstrate the nesting of *if else if* statements.
- 27 What are the different methods available in vector class ?
- 28 How do we add a class or interface to a package ?

(5 × 2 = 10 weightage)

IV. Essay Questions. Answer any two questions :—

- 29 What are the different ways to create a thread in Java. Illustrate multithreading in Java with a suitable example ?
- 30 Explain Applet life cycle. Give an example of a simple Applet program
- 31 What is meant by initializing a file stream object ? What are the ways of doing it ? Give example code for each of them.

(2 × 4 = 8 weightage)