



SW-108

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Seat No.	
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B.C.A. (Commerce and Management) Part-III Semester-V

Examination, March 2024.

JAVA PROGRAMMING (CC 501)

Sub. Code : 88232

Day and Date: Tuesday, 26-03-2024

Total Marks: 70

Time: 10.30 a.m. to 1.30 p.m.

- Instructions:**
- 1) Q.1 and Q.6 are **COMPULSORY** and attempt **ANY THREE** questions from Q.2 to Q.5.
 - 2) Figures to the right indicate full marks.

Q.1 a) Multiple choice questions. (10 questions for 1 mark each) (10)

- 1) Which constructor function is designed to copy objects of the same class type?
(A) Create constructor (B) Object constructor
(C) Dynamic constructor (D) Copy constructor
- 2) The statement can be used to handle an exception that is not caught by any of the previous catch statement.
(A) throw (B) catch
(C) finally (D) try
- 3) exception is thrown when an attempt is made to access an array element beyond the index of the array.
(A) Throwable (B) Restricted
(C) Security (D) ArrayIndexOutOfBounds
- 4) Which of the following will produce a value of 10 if $x = 9.7$?
(A) floor (x) (B) abs (x)
(C) rint (x) (D) round (x)

- 5) The concept of multiple inheritance is implemented in Java by
- (A) extending two or more classes
 - (B) extending one class and implementing one or more interfaces
 - (C) implementing two or more interfaces
 - (D) both B and C
- 6) Which object can be constructed to show any number of choices in the visible window?
- (A) Labels
 - (B) Choice
 - (C) List
 - (D) Checkbox
- 7) Which are passive controls that do not support any interaction with the user?
- (A) Choice
 - (B) List
 - (C) Labels
 - (D) Checkbox
- 8) Which of these is a mechanism for naming and visibility control of a class and its content?
- (A) Object
 - (B) Packages
 - (C) Interfaces
 - (D) None of these
- 9) Which of the following is the correct way of implementing an interface salary by class manager?
- (A) `Class manager extends salary {}`
 - (B) `Class manager implements salary {}`
 - (C) `Class manager imports salary {}`
 - (D) None of these
- 10) Which of these methods are used to register a keyboard event listener?
- (A) `KeyListener ()`
 - (B) `AddKeyListener ()`
 - (C) `AddKeyListener ()`
 - (D) `eventKeyListener ()`

b) Short answer questions. (Any two out of three)

(10)

- i) What is Byte Code? Why Java is platform independent?
- ii) What is constructor? Give its types with example.
- iii) Explain different types of polymorphism in detail.

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- Q.2 State and explain different branching statements in Java with suitable examples. (10)
- Q.3 What is inheritance? Explain its different types with examples. (10)
- Q.4 What is Multithreading? Explain different ways of thread creation in Java. (10)
- Q.5 State and explain any FIVE swings components with examples. (10)
- Q.6 Write notes on. (Any four out of six) (20)
- i) JDK, JRE and JVM
 - ii) Interface
 - iii) Getter and setter method in Java
 - iv) Event-Delegation Model
 - v) Exception handling
 - vi) Listeners
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