

450

Seat No. : 450

ZC-122

April-2014

B.C.A., Sem.-IV

CC-210 CORE JAVA

Time : 3 Hours]

[Max. Marks : 70

1. (A) Explain the following terms :

- (1) Bytecode
- (2) Type casting
- (3) Static Keyword
- (4) Polymorphism

OR

Explain the following terms :

- (1) Wrapper class
- (2) Constant
- (3) Finalize Function
- (4) Switch Keyword

(B) Explain the characteristics of Java language.

OR

Explain Java architecture with figure.

2. (A) Answer the following questions :

- (1) List Methods of graphical dialog boxes of JOptionPane.
- (2) Differentiate between Method vs. Constructor.
- (3) Differentiate between Applet vs. Application.
- (4) How StringBuffer is better than String ?

OR

Answer the following questions :

- (1) Explain Logical operators.
- (2) Differentiate between equals vs. (==).
- (3) Differentiate between Abstract vs. Final.
- (4) Explain Java comments.

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(B) Write short note on Looping statements with examples.

OR

Write short note on different types of Java arrays with examples.

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3. (A) Answer the following questions :

- (1) Explain different states of Thread life cycle with figure.
- (2) What is package ? What are their types ? Why we need package ? Explain with example.

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OR

Answer the following questions :

- (1) What is interface ? What are its characteristics ? Why we need it ? Give example.
- (2) What is exception ? What are their types ? Explain exception handling mechanism with example.

(B) Describe following functions :

- (1) drawRect()
- (2) showStatus()
- (3) fillPolygon()

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OR

Describe following functions :

- (1) drawString()
- (2) join()
- (3) sleep()

4. (A) Do as directed :

- (1) Explain Thread priorities.
- (2) Give example of creating owned checked exception
- (3) Define keywords : (1) Try (2) Catch
- (4) Applet class hierarchy

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OR

Do as directed :

- (1) List any five attributes of <APPLET> tag.
- (2) Identify functions: getDocumentBase() and getCodeBase().
- (3) ArithmeticException class hierarchy
- (4) What do you mean by abstract functions ?

(B) Answer the following questions :

- (1) What is inheritance ? What is "extends" keyword does ? List advantages of using Inheritance.
- (2) What are the access modifiers in Java language ? What do you mean by default modifier ?

OR

Answer the following questions :

- (1) What is interface ? What is "implements" keyword does ? List advantages of using Interface.
- (2) Explain different functions of Applet life cycle.

5. Fill in the blanks :

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- (1) The command to execute a compiled Java application is _____
(a) exec (c) appletviewer
(b) javac (d) java
- (2) An instance of class is a(n) _____.
(a) Method (c) Object
(b) Constructor (d) Bytecode
- (3) The value 983.47 can be held by a variable of type _____.
(a) double (c) int
(b) float (d) All of above
- (4) Int Z = 97 >> 3. The value of Z is _____.
(a) 94 (c) 13
(b) 79 (d) 12
- (5) To convert "977" into integer value, _____ function is used.
(a) toInteger() (c) parseInt()
(b) parseInteger() (d) toIntValue()
- (6) The super keyword references _____.
(a) To Local class (c) To Child class
(b) To Parent class (d) To Object class
- (7) To count elements in array, _____ is used.
(a) Capacity (c) Length
(b) Size (d) Elements
- (8) _____ is a valid declaration of six boolean elements array
(a) boolean b[] = new boolean[6]
(b) boolean b[6]
(c) boolean b = new boolean[6]
(d) boolean [] b = new boolean(6)

- (9) _____ block handles the thrown exception.
- (a) Finally (c) Throw
(b) Catch (d) Throws
- (10) The code within a finally block executes when the try block _____.
- (a) Identifies one or more exception
(b) Does not identify any exception
(c) Identify any runtime exceptions
(d) All of above
- (11) Abstract class does not have _____.
- (a) ~~Instantiate Object~~ (c) Child class
(b) Parent class (d) Constructors
- (12) A Thread is created by implementing _____ interface.
- (a) **Runnable** (c) Throwable
(b) **Thread** (d) ThreadRunner
- (13) To draw rectangle using Graphics in Applet, _____ package is required:
- (a) Java.net (c) Java.util
(b) **Java.applet** (d) **Java.awt**
- (14) To draw circle in applet, _____ function is used.
- (a) ~~drawOval()~~ (c) **drawCircle()**
(b) drawRoundRectangle() (d) drawEclipse()