

Seat No. : _____

SC-103

October-2017

B.C.A. Sem.-IV

CC-210 : Core Java

Time : 3 Hours]

[Max. Marks : 70

1. (A) Answer the following questions :

- (i) Explain the Java Architecture with diagram. 4
- (ii) Which Java class is used for GUI output ? Explain with example. 3

OR

Answer the following questions :

- (i) List out various categories of operators and explain any one with example.
- (ii) How GUI Input is offered in Java ? Explain with example.

(B) Answer the following questions :

- (i) What is Method Overloading ? Explain with example. 4
- (ii) Define : Literals, Keywords, Character Data type. 3

OR

Answer the following questions :

- (i) How Constructor Overloading is implemented ?
- (ii) Define : Constants, Identifiers, Boolean Data Type.

2. (A) Answer the following questions :

- (i) Compare “switch” and “if...else” control statements with suitable example. 4
- (ii) How “nested loops” are used ? Explain. 3

OR

Answer the following questions :

- (i) Compare “While” and “Do...while” loops used in Java.
- (ii) How Conditional operators are used ? Explain.

(B) Answer the following questions :

- (i) Write a short note on "Passing array to methods". 4
- (ii) Explain with example : isUpperCase(), capacity(), replace() 3

OR

Answer the following questions :

- (i) Write a short note on "Multidimensional Array".
- (ii) Explain with example: isLetterOrDigit(), indexOf(), append()

3. (A) Answer the following questions :

- (i) How Exception Handling is implemented in Java ? Explain with example. 4
- (ii) What is Method Overriding ? Give suitable example. 3

OR

Answer the following questions :

- (i) Explain "Custom Exception" with suitable example.
- (ii) How "Constructor Calling" is implemented during inheritance ?

(B) Answer the following questions :

- (i) Write a short note on : Abstract class & its implementation. 4
- (ii) Explain briefly "finally" block. 3

OR

Answer the following questions :

- (i) Write a short note on : multiple interfaces & its implementation into one class.
- (ii) Explain briefly "super" keyword.

4. (A) Answer the following questions :

- (i) Draw and explain Thread Life Cycle. 4
- (ii) Draw Access Protection Chart and explain. 3

OR

Answer the following questions :

- (i) What is Package ? Explain any three Built-in package.
- (ii) How to deal with Thread Priority ? Explain.

(B) Answer the following questions :

- (i) Draw and explain Life cycle of an Applet. 4
(ii) Explain briefly importing a package. 3

OR

Answer the following questions :

- (i) Explain any two methods of Graphics class with suitable example.
(ii) Explain briefly sleep() method of thread.

5. Do as directed :

- (1) Compiled Java code is maintained in _____.
(a) Byte code (b) ASCII code
(c) Unicode (d) Grey code
- (2) Multiple comments can be added to Java file using _____.
(a) //....// (b) /**/
(c) /*..../* (d) **....**
- (3) A keyword that refers to current class object is _____.
(a) this (b) current
(c) pointer (d) None of the above
- (4) Operators like ++, -- are called as _____.
(a) Relational Operators (b) Ternary Operators
(c) Assignment Operators (d) Increment/decrement Operators
- (5) _____ method checks whether entered character is black space or not.
(a) isBlank() (b) isBlankSpace()
(c) isWhiteSpace() (d) isSpace()
- (6) Which of the following is Wrapper class ?
(a) Short (b) Long
(c) Double (d) All of the above
- (7) Output of the following code segment is :
int i=0, x= -10;
while(i<=10)
{
if(i%2== 1)
x=x+(i*i);
i++;
}
- (a) i=10, x=155 (b) i=11, x=155
(c) i=10, x=154 (d) i=11, x=154
- (8) Valid Array class method to search a value in Array Object is _____.

- (a) binSearch() (b) searchBinary()
(c) binarySearch() (d) None of the above
- (9) Runtime Exception is part of the type _____.
(a) Checked Exception (b) Unchecked Exception
(c) Notchecked Exception (d) None of the above
- (10) Super class constructor can be called using _____ keyword.
(a) super (b) base
(c) parent (d) higher
- (11) Which of the following(s) cannot be overridden ?
(a) final class (b) final method
(c) static method (d) All of the above
- (12) Which interface is also used to run applet ?
(a) Throwable (b) Runnable
(c) Paint (d) None of the above
- (13) Which Access Modifier is visible within a package ?
(a) default (b) public
(c) protected (d) All of the above
- (14) To draw and fill color within a rectangle with rounded corners, the method is _____.
(a) fillRoundRect() (b) fillRoundedRect()
(c) fillRectRounded() (d) FillRectRoundedCorner()
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