

Seat No. : _____

AJ-123

April-2016

B.C.A., Sem.-IV

CC-210 : Core Java

Time : 3 Hours]

[Max. Marks : 70

1. (a) State and explain the features of Java. **7**

OR

State and explain the different types of operators in Java.

(b) Answer the following :

(i) What is meant by constructor ? Also explain constructor overloading. **4**

(ii) Differentiate between : Java Applications and Java Applets. **3**

OR

Answer the following :

(i) Discuss : InputDialog and ConfirmDialog boxes of JOptionPane class. **4**

(ii) State and explain any three data types in Java in brief. **3**

2. (a) Explain the different looping statements in Java giving suitable example. **7**

OR

What is Arrays class in Java ? Explain all the methods of Arrays class in detail.

(b) Answer the following :

(i) Explain the Integer and Double wrapper classes in Java. **4**

(ii) Explain the insert() and setCharAt() methods. **3**

OR

Answer the following :

(i) Explain the significance of string class in Java ? Also explain any two methods of String class. **4**

(ii) How can we create arrays of strings ? Explain giving suitable examples. **3**

3. (a) What is an exception ? How is Exception handling implemented in Java ? Also explain the advantages of exception handling. 7

OR

Discuss in detail the concept of inheritance in Java. How is multiple inheritance implemented in Java ?

- (b) Answer the following :

- (i) Differentiate between : Interface and Abstract Class 4
(ii) What is method overriding ? 3

OR

Answer the following :

- (i) What are static methods ? Why main() method is a static method in Java ? 4
(ii) Explain the 'finally' block of exception handling. 3

4. (a) What is a Thread ? Explain the thread life cycle. 7

OR

What is a Package ? What are the advantages of using a Package ? State and explain any four built-in-packages in Java.

- (b) Answer the following :

- (i) Write a short note on : Thread Priorities. 4
(ii) Explain : The import statement. 3

OR

Answer the following :

- (i) Explain : The applet tag. 4
(ii) Explain any two methods of Graphics class. 3

5. Do as directed : 14

- (1) The Java compiler converts the source code into a binary program of _____.
(2) In Java, the value of $4+7*4+5$, will be _____.
(3) Show MessageDialog is a JOptionPane method that can get input from the user. [True/False]

- (4) _____ method returns true if the argument is a letter and false otherwise.
- (5) The method that determines whether two String objects are equivalent, regardless of Case, is _____.
- (6) By using wrapper classes, we can convert a primitive data type into object type. [True/False]
- (7) The default value of Boolean type variable is always false. [True/False]
- (8) The constructor of a derived class can access the constructor of its base class by using the reserved word _____.
- (9) An abstract class can be declared as final. [True/False]
- (10) Errors and RuntimeExceptions are _____ exceptions.
- (11) If a constructor includes a call to the constructor of the base class, then the call must be the first action in the constructor. [True/False]
- (12) The _____ package is used for network communication.
- (13) A dead thread can be restarted. [True/False]
- (14) _____ method is used to draw an open ended polygon.

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