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CS/BCA (SUPPLE)/SEM-6/BCAE-602B/09
OBJECT ORIENTED PROGRAMMING WITH JAVA
SEMESTER - 6



Time : 3 Hours]

[Full Marks : 70

GROUP – A

(Multiple Choice Type Questions)

1. Choose the correct alternatives of the following : 10 × 1 = 10

i) Which code segment could execute the stored procedure "countRecs()" located in a database server ?

- a) `Statement stmt = connection.createStatement(); stmt.execute("COUNTRECS()");`
- b) `CallableStatement cs = con.prepareCall("{call COUNTRECS}"); cs.executeQuery();`
- c) `StoreProcedureStatement spstmt = connection.createStoreProcedure("countRecs()"); spstmt.executeQuery();`
- d) `PreparedStatement pstmt = connection.prepareStatement("countRecs()"); pstmt.execute();`

ii) `If (check4Biz(storeNum) != null) {}`

Referring to the above, what datatype could be returned by method check4Biz() ?

- a) Boolean b) int
- c) String d) char.



```

iii)  int j;

      for(int i=0; ,14;i++){

      if(i<10){

      j = 2 + i;

      }

      System.out.println("j:" + j + "i:" + i);

      }

```



What is WRONG with the above code ?

- a) Integer "j" is not initialized
- b) Nothing
- c) You cannot declare integer "i" inside the for-loop declaration
- d) The syntax of the "if" statement is incorrect.

iv) Which one of the following is a valid declaration of an applet ?

- a) Public class MyApplet extends java.applet.Applet {
- b) Public Applet MyApplet {
- c) Public class MyApplet extends applet implements Runnable {
- d) Abstract class MyApplet extends java.applet.Applet {

v) int values [] = { 1, 2, 3, 4, 5, 6, 7, 8 } ;

```
for( int i = 0 ; i < X; ++ i )
```

```
System.out.println( values[ i ] ) ;
```

Referring to the above, what value for X will print all members of array "values" ?

- a) 1
- b) 7
- c) 8
- d) 9.



6

ix) What is the value of z ? `double z = 7/(3 + 0.5);`

- a) 0.5
- b) 2.0
- c) 2.833333333
- d) 3.0



x) What is byte code in the context of Java ?

- a) The type of code generated by a Java compiler
- b) The type of code generated by a Java Virtual Machine
- c) It is another name for a Java source file
- d) It is the code written within the instance methods of a class.

GROUP – B

(Short Answer Type Questions)

Answer any *three* of the following.

3 ∞ 5 = 15

- 2. Explain OOPs properties of Java. “Java is a platform independent language” — Explain with the help of JVM. 2 + 3
- 3. What are the types of inheritance available in Java ? Give example. What is the use of super() keyword in Java.
- 4. What is the utility of string tokenizer ? Write two methods of string tokenizer. 2 + 3
- 5. What is object serialization in JAVA ? Give an example where you can define function in the interface. 3 + 2
- 6. What is an abstract class ? Provide a short program to illustrate this. 1 + 4



7
GROUP – C

(Long Answer Type Questions)

Answer any *three* of the following.



3 × 15 = 45

7. Describe applet life cycle. Write a program to show all the steps of applet life cycle. What are the different attribute of applet tag ? What is remote applet ? 3 + 5 + 5 + 2

8. What is the difference between string and string buffer ? Write a program in Java to search and edit an existing string. How can an exception be handled in Java ? 3 + 7 + 5

9. a) “Programmer can call a constructor from another constructor” — Explain with an example.

b) Write a program that draws a selected geographic shape in random colour and at random location. The menu choices for the program are

Shape

- Circle
- Rectangle
- Square

6 + 9

10. a) What is the difference between the inner class and nested class ? Give an example for both the classes.

b) “In Java variables are initialized before any method called even constructor” — Explain with an example.

c) What is Singleton class ? 8 + 4 + 3

11. What are the types of threads ? How can threds be generated in Java ? Write a program which can throws all the exception catch from the multiple blocks. 2 + 5 + 8

END