1004E09   Candidate's Seat No :_____

B.Sc. Semester-6 Examination
CC 308
Computer Science

Time : 2-30 Hours]   **March-2023**   [Max. Marks : 70

Q:1 Write the Following.

    (i) Define exception. List java's common exceptions. Write a JAVA
program to generate and handle division by zero arithmetic exception.   (7)
    (ii)Explain types of exception.   (7)
OR
    (i) Explain the importance of exception handling in java. Which keywords are used to
handle exceptions? Write a program to explain the use of these keywords.   (7)
    (ii)Explain throw,throws and finally with example.   (7)

Q:2 Write the Following.

    (i)Explain life cycle of Applet.   (7)
    (ii)How to pass parameters to applet?Explain with example.   (7)
OR
    (i)Explain Frame & Panel with example.   (7)
    (ii)Draw circle,line & polygons with related coordinates & it's methods.   (7)

Q:3 Write the Following.

    (i)Explain concept of event handling.   (7)
    (ii)Explain checkbox & it's event with example.   (7)
OR
    (i)Explain List & it's event with example.   (7)
    (ii)Explain keyboard & it's event with example.   (7)

Q:4 Write the Following.

    (i) What is layout manager?Explain any one layout with example.   (7)
    (ii) What is Swing?Explain in detail with example.   (7)
OR
    (i) Explain JCombobox with example.   (7)
    (ii) Explain architecture of JDBC with connectivity example.   (7)

P.T.o

Q:5 Attempt any seven out of twelve. (14)

1. What will be the output of the following Java code?

```
1.      class exception_handling
2.      {
3.          public static void main(String args[])
4.          {
5.              try
6.              {
7.                  int i, sum;
8.                  sum = 10;
9.                  for (i = -1; i < 3 ;++i)
10.                 {
11.                     sum = (sum / i);
12.                 System.out.print(i);
13.                 }
14.             }
15.             catch(ArithmeticException e)
16.             {
17.                 System.out.print("0");
18.             }
19.         }
20.     }
```
a) -1   b) 0   c) -10   d) -101

2. Which of these keywords is used to generate an exception explicitly?
a) try   b) finally   c) throw   d) catch

3. What will be the output of the following Java code?

```
1.      class exception_handling
2.      {
3.          public static void main(String args[])
4.          {
5.              try
6.              {
7.                  System.out.print("Hello" + " " + 1 / 0);
8.              }
9.              finally
10.             {
11.         System.out.print("World");
12.             }
13.         }
14.     }
```

a) Hello   b) World   c) Compilation Error   d) First Exception then World

4. Which of these functions is called to display the output of an applet?
   a) display()   b) paint()   c) displayApplet()   d) PrintApplet()

5. Which of these methods can be used to output a string in an applet?
   a) display()   b) print()   c) drawString()   d) transient()

6. Which of these operators can be used to get run time information about an object?
   a) getInfo   b) Info   c) instanceof   d) getinfoof

7. Which of these events is generated by scroll bar?
   a) ActionEvent   b) KeyEvent   c) WindowEvent   d) AdjustmentEvent

8. Which of these methods can be used to determine the type of adjustment event?
   a) getType()   b) getEventType()
   c) getAdjustmentType()   d) getEventObjectType()

9. Which of these methods can be used to know the degree of adjustment made by the user?
   a) getValue()   b) getAdjustmentType()0
   c) getAdjustmentValue()   d) getAdjustmentAmount()

10. What are the major components of the JDBC?
    a)DriverManager, Driver, Connection, Statement, and ResultSet
    b)DriverManager, Driver, Connection, and Statement
    c)DriverManager, Statement, and ResultSet
    d)DriverManager, Connection, Statement, and ResultSet

11. Select the packages in which JDBC classes are defined?
    a)jdbc and javax.jdbc
    b)rdb and javax.rdb
    c)jdbc and java.jdbc.sql
    d)sql and javax.sql

12. Which of the following method is used to perform DML statements in JDBC?

    a)executeResult()   b)executeQuery()

    c)executeUpdate()   d)execute()