Section A

1. What is suitable method for remove all raw in table?
   a. removeRows();
   b. removeAllRow();
   c. setRowcount(0);
   d. setRows(0);

2. What is the correct method to get selected data of jList?
   a. getSelected();
   b. getSelectedItem();
   c. getSelectedValue();
   d. getValue();

3. What is the correct method to get data in specific cell of jtable?
   a. getData();
   b. getValue();
   c. getValueAt();
   d. valueAt();

4. Which package include Date object with this constructor 'new Date()'?
   a. Java.sql
   b. Java.util
   c. Java.io
   d. com.date

5. Which package not required write import statement?
   a. Math
   b. IO
   c. Util
   d. Awt

6. Which method is suitable for add data to HashMap?
   a. add();
   b. setData();
   c. put();
   d. addRow();

7. What Correct JDBC protocol is
   a. jdbc:mysql://
   b. mysql:jdbc://
   c. com.mysql://
   d. mysql.com://

8. What is the return type in executeUpdate("insert into emp values('E1','Nimal')")
   a. boolean
   b. int
   c. void
   d. String

9. Which method can search data from database?
   a. getData(sql);
   b. execute(sql);
   c. executeQuery(sql);
   d. executeUpdate(sql);

10. Which component is not include in java JDBC api?
    a. Conncection
    b. Resultset
    c. SQLDataSet
    d. Statement

11. Which packages contain the JDBC classes?
    a. java.jdbc and javax.jdbc
    b. java.jdbc and java.jdbc.sql
    c. java.sql and javax.sql
    d. java.rdb and javax.rdb

12. JDBC stands for:
    a. Java Database Connectivity
    b. Java Database Components
    c. Java Database Control
    d. None of the above is correct.

13. Which statement is correct parameter for Class.forName();
    a. com.jdbc.mysql.Driver
    b. com.mysql.jdbc.Driver
    c. com.jdbc.mysql.driver
    d. com.mysql.jdbc.driver

14. Which method can change size a frame
    a. setBounds();
    b. setHightAndWidth();
    c. setFrameDimension();
    d. setFrameSize();

15. Which parameter can use in executeUpdate();
    a. int
    b. String
    c. double
    d. None of above

16. Which parameter can use in adding data to Vector?
    a. String
    b. Object
    c. int
    d. All

17. What are the suitable parameter list for actionPerformed()?
    a. Event
    b. int
    c. ActionEvent
    d. String

18. What are the suitable parameter list for Color class Constructor?
    a. int,int,int
    b. String
    c. Color Object
    d. double,double,double

19. What is the incorrect parameter list for GridLayout class Constructor?
    a. int,int,int,int

b. int
    c. No Parameter
    d. int,int
20. Which method can add MenuItems to Menu?
    a. set();
    b. add();
    c. put();
    d. addMenuItem();

21. What is the   correct parameter list for TextField class Constructor?
    a. int
    b. String,int
    c. No parameter
    d. int,int

22. What is the return type in getPassword() method?
    a. char[]
    b. String
    c. String[]
    d. int
23. How to remove JFrame title bar?
    a. Jframe>Properties>TitleBar visibile >false
    b. Jframe>Properties>ShowTitle >false
    c. Jframe>Properties>Undecorated >true
    d. Jframe>Properties>InvisibleTitleBar >true
24. How set Image to Label?
    a. Label > Properties > image
    b. Label > Properties > icon
    c. Label > Customcode > imageurl
    d. Label > Properties > imageprperty
25. How many mode we used to create exe?
    a. 1
    b. 2
    c. 3
    d. None of above
26. Which class can create radio button?
    a. java.awt.RadioButton
    b. javax.swing.JRadioButton
    c. java.component.RadioButton
    d. java.component.JRadioButton

27. What are the setValueAt() parameter list?
    a. int,int,Object
    b. Object,int,int
    c. int,int
    d. empty

28. What is the output here?
String x=”45R”;
int u = Integer.parseInt(x);
System.out.println(u);

    a. 45
    b. Compile error

c.   Runtime error
d.   None of above.

29. We want to get first result from database.Select the suitable method to fill following code fragment.
Resultset rs = DB.getCon().CreateStatement().executeQuery();
while(_____){
}
    a.   next();
    b.   first();
    c.   rs.next();
    d.   rs.first();
30. Consider the following code;
private void tf1KeyTyped(java.awt.event.KeyEvent evt) {
char c = evt.getKeyChar();
if(c=='x'){
evt.consume();
}
Which is the result of attempting to compile and run the above netbeans event ?
    a.   Print : consume
    b.   Print: null
    c.   Cant type 'x' in the text field
    d.   Can't type any character
31. Consider the following code;
private void tf1KeyTyped(java.awt.event.KeyEvent evt) {
int x= evt.getKeyCode();
if(c==10){
System.out.println("OK");
}
Which is the result of attempting to compile and run the above netbeans event ?
    a.   Print : OK after type any key
    b.   Print Nothing
    c.   Print OK after type enter button
    d.   Print OK after type "," (comma)

32. KeyEvent.consume() what will be from this method?
    a.   Can't type in anywhere
    b.   Prevent current event.
    c.   Print counsume
    d.   None of these
33. Not include in Logger Levels
    a.   DEBUG
    b.   FATAL
    c.   EXCEPTION
    d.   INFO

34. Correct answer is for the following blanks is
…………………….. -u […………………..] -p[……………….] [dbname] > [backupfile.sql]

    a.   mysqld, root, 123
    b.   mysqld, 123, root
    c.   mysqldump, root, 123
    d.   musqldump, 123, root
35. Subreport can't create with parameter?

a. True
b. **False**

36. In Pattern Layout %d what is this conversion character?
    a. File Name
    b. Error page
    c. **Date**
    d. Error Line

37. In Pattern Layout %p what is this conversion character?
    a. **Logger Level**
    b. Error page
    c. Date
    d. Error Line

38. In Pattern Layout %m what is this conversion character?
    a. File Name
    b. Error page
    c. Date
    d. **Message**

39. ClassNotFoundException which line will be throw this exception?
    a. DriverManager.getConnection();
    b. **Class.forName();**
    c. executeUpdate();
    d. JTable.removeRow();

40. JasperFillManager.fillReport() method return type is?
    a. JasperFillReport
    b. **JasperPrint**
    c. JasperReport
    d. None of these

Section B

1. There is a swing system with hosted database, database host name https://www.infolanka.com/ or 192.68.445.51 they can access their database 'db_infolanka' with port 3309 write a db class for access their database.

   a.

   ```
   public class MYDB {
       public static Connection getDBCon()throws Exception{
           Class.forName("com.mysql.jdbc.Driver");
           Connection c=DriverManager.getConnection("jdbc:mysql://192.68.445.51:3309/db_infolanka","root","123");
           return c;
       }
   }
   ```

   b. user name and password not required.

2. **Draw Jasper Report** designing template.

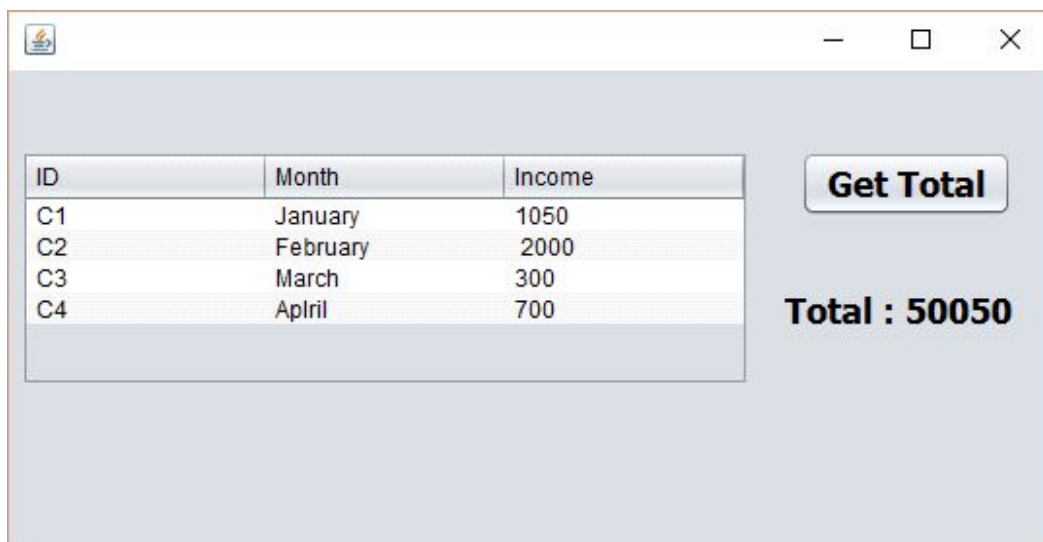| title |
| --- |
| pageHeader |
| columnHeader |
| detail |
| columnFooter |
| pageFooter |
| lastPageFooter |
| summary |

last page footer not required

3. Write code fragment for compile and view a report with parameter and JDBC data source.

a.

```
try {

    String path="D:/Project Folder/Ireport/sad/sad8/staffincome.jrxml";
    JasperReport compileReport = JasperCompileManager.compileReport(path);
    Map<String,Object> m=new HashMap();
    m.put("vat", jTextField1.getText());
    JasperPrint fillReport = JasperFillManager.fillReport(compileReport, m, MyDB.getDBCon());
    JasperViewer.viewReport(fillReport,false);
} catch (Exception e) {
    e.printStackTrace();
}
```

4. Write a code fragment for calculate total of income column


```
DefaultTableModel dtm=(DefaultTableModel) jTable1.getModel();
double stot=0;
for (int i = 0; i < dtm.getRowCount(); i++) {
String s1 = dtm.getValueAt(i, 4).toString();
stot+=Double.parseDouble(s1);
}
subtotal.setText(""+stot);
```

Section C

1. What is J Unit?
2. **JUnit is a unit testing framework for Java programming language. JUnit has been important in the development of test-driven development, and is one of a family of unit testing frameworks collectively known as xUnit, that originated with JUnit.**

3. **Write** test case for below method.

```java
class Testo{
    public String getCharConcat(char data[]){
        String text="";
        for (char c : data) {
            text+=c;
        }
        return text;
    }
}
```

@Test
public void testGetCharConcat{
System.out.println("getFullName");
String x[] ={'A','D','B','C'}
Testo instance = new Testo();

```
String expResult = "ADBC";
String result = instance.getCharConcat(x);
assertEquals(expResult, result);
}
```