

GULF SAHODAYA (SAUDI CHAPTER) EXAMINATION- 2018

Subject : Informatics Practices
Class : XI

Time : 3hours
MM: 70

1. a) What is meant by BUS? (1)
b) Why ROM is required? (1)
c) Differentiate between OCR and MICR (1)
d) Define BIOS. (1)
e) Give various types of operating system (1)
f) Define the term system software. (1)
g) Explain the usage of compiler and assembler. (2)
h) Write short notes on Digital signature, Cookies (2)

2. a) Differentiate between textfield and textarea. (1)
b) How are keywords different from variable names? (2)
c) What will be displayed in JTextArea1 after the following statement (2)

```
int N;  
for( N = 10; N < 50 ; N = N + 30)  
{  
    N = N + 15;  
    JTextArea1.append(" " + N);  
}  
JTextArea1.append("\n" + N);
```


d) Rewrite the following code using do while (2)

```
int num ,sum=0;  
for(num=20; num<=40; num=num*2)  
{  
    JOptionPane.showMessageDialog(null ,num);  
    sum=sum+num;  
}  
JOptionPane.showMessageDialog(null ,"Bye Bye");
```


e) What is the purpose of default clause in switch statement? (1)
f) What will be the output of the following
 - (i) String s1="Java" , s2 ="NetBeans"; (1)
String s3= s2.concat(s1);
JTextField1.setText(s3);
 - (ii) JTextArea1.setText("Welcome \tTo \nJava \nProgramming"); (1)
g) What is the difference between a ++ and -- a in java? (1)

3. a) Rewrite the following after removing syntax errors. (2)
(Underline corrections made)

```
int y = 7 ; sum =0 ;  
while ( y < = 15)  
{  
    Sum = sum + y;  
    y = + 2 ;  
    JTextField1.setText(" + sum);
```

b) Differentiate between syntax error and run time error with example. (2)

c) Consider the statement (1)

```
choice = 'Y';
```

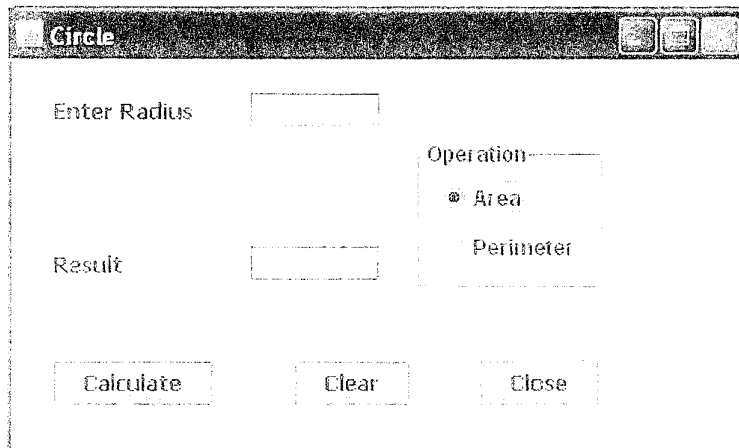
What is the datatype of variable choice? Write a java statement to declare the variable choice.

d) Write a java code to declare two integer variables c1 and c2. Assign 20 to variable c1 and 50 to c2. Store the half of the sum of c1 and c2 to another variable c3. (2)

e) Rewrite the following code using if else statement (2)

```
switch(decode)
{
    case 'A' :
    case 'a' : allowance = 4000 ; break;
    case 'B' : allowance = 2000; break;
    default : allowance = 1000; break;
}
```

f) Consider the following application to take the input from user in a radio button out of the two referring to Area (RdArea) or Perimeter (RdPer) of a circle.



Write the java code for the following

i) To print the result as area or perimeter in a TextField (jTextResult) for the value of radius entered in a TextField (jTextRadius) for the click on calculate button. (2)

ii) Make default choice to area radio button and clear all textfields (2)

iii) To close the application after displaying a message "Application Completed" (1)

4. a) Ms. Ranjna is using a database named School. Help her to write the commands for the following (2)

(i) To open the database

(ii) To view the names of tables present in it

b) What is the difference between "%" and "_" wild card characters? (1)

c) What is the purpose of order by? (1)

d) What is meant by clause? Give example (2)

e) Help Ravi to write the correct form of the following query (2)

Select sname, smarks from student where sname = "a%" and smarks = NULL;

f) What is DBMS? Write names of any two DBMS. (2)

5. a) Write the output of the following (2)

(i) Select round(234.26);

(ii) Select length("We Study MySQL");

b) Define (i) Relation (ii) Tuple (2)

c) Write the command in SQL to create the following table "ROUTE" whose structure is given below: (2)

Table : ROUTE

FieldName	Data Type	Size
RouteNo	Integer	2
RouteName	Varchar	20
RouteDate	Date	
Routepoints	Integer	

d) How will you help Arpita to add another column "Budget" with integer data type and size as 2 in a table named as "Department" (2)

e) Which keyword is used to eliminate redundant data? (1)

6. a) Is NULL value the same as 0(zero)? State reason. (1)

b) Define Candidate key. (1)

c) Define Numeric functions with example. (2)

d) List relational operators used in SQL. (1)

7. Given the following table.

Table : Loan

AccNo	CustName	LoanAmount	Instalments	IntRate	StartDate
1	R.K.GUPTA	30000	36	12.0	19-07-2017
2	S.P.SHARMA	50000	48	10.0	22-03-2010
3	K.P.JAIN	20000	20	12.5	06-12-2015
4	K.S.DHALL	50000	48	10.0	05-03-2012

Write the SQL Queries for (a) to (d) (4)

a) To display the customer name whose amount is in the range of 20000 and 30000.

b) To display the details of all the loans whose customer name starts with 's'

c) To display account number whose start date is before 10th Feb 2017

d) To display the details of all the loans in the descending order of their name.

e) Write the outputs of the following (2)

i) select instr(CustName, 'S') from Loan where accno=2;

ii) Select Right(CustName, 4) from Loan where intRate =10.0;

8.

a) Define E Business. Give major portals of it. (2)

b) What are main features of a good GUI? (1)

c) Write most appropriate controls for the following (2)

i) A comment in front of a textfield

ii) Saving the details of an employee

iii) Selecting country of a person

iv) Accepting membership type (Monthly , Annual ,Lifetime)