

## GULF SAHODAYA (SAUDI CHAPTER ) EXAMINATION -2009

**SUBJECT : INFORMATICS PRACTICES**

**CLASS : XI**

Note : Programming language : Visual Basic

RDBMS : Oracle

**TIME : 3 HRS**

**MAX MARKS : 70**

- 1.a) Give the measuring units of memory. 1
- b) What are the limitations of a computer system ? 1
- c) Differentiate between
- i) Primary memory and Secondary memory 2
  - ii) Digital computer and Analog computer
- d) Name various types of operating system. 2
- e) What is the difference between copying and moving a block of text ? 1
- f) How are 3GLS different from 4GLS ? 1
- g) Define computing and business computing system. 2
- 2.a) What is property window ? 1
- b) Name the three categories of errors. 1
- c) Identify the implicit and explicit variable declarations in the following statements. 2
- i) Dim V1 As Integer , V2 As single , V3, V4
  - ii) X = 3  
Y = 7  
Z = X \* Y
- d) How does VB support event driven programming ? 2
- e) What will be the result of following expressions if a = 10 , b = 3 , c = 4 2
- i) a \* b \ c
  - ii) a \* b Mod c
- f) How will you declare fixed length strings and variable length strings ? Give examples. 2
- g) Define menu control array and separator bar. 2
- h) What is Data control ? 1
- i) Differentiate between Do While loop and Do Until loop of Visual Basic giving a suitable example. 2
- 3.a) Give the output of the following code 2
- ```
P = 1
S = 0
For i = 5 To 1 Step -1
    S = S + i
    P = P * i
Next i
Print S, P
```
- b) Rewrite the following code using Do While-Loop 2
- ```
Sum = 0
For counter = 1 To 20
    If ( counter Mod 4 = 0 ) Then
```

```
Sum = Sum + counter
End If
Next counter
Print "Sum =",Sum
```

c) Write equivalent case statement for the following

2

```
If Code = "S" Then
    Print " Summer Season "
ElseIf Code = "R" Then
    Print " Rainy Season "
ElseIf Code = "W" Then
    Print " Winter Season "
Else
    Print " Wrong Code "
End If
```

d) Find the errors in the following code and rewrite the corrected code underlining the corrections made.

2

```
Dim num =10 , I As Integer
I = 1
Do While I <5
    I= I +1
    If num >15
        num= 0
    ElseIf
        num = num-3
    End If
End While
```

4. a) Write a VB code for the Click event of a command button, cmdCheck to check whether the entered character is uppercase vowel or uppercase consonant.

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b) Consider the form designed below for a company

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The image shows a screenshot of a Visual Basic form titled "calculating net Salary of an employee". The form has a title bar with "Project1 - Form1 (Form)". Inside the form, there are three text boxes for input: "Enter basic salary", "DA is", and "HRA is". Below these text boxes is a button labeled "Calculate". The form is displayed in a window with standard Windows window controls (minimize, maximize, close) in the top right corner.

In company , an employee is paid as follows :

Basic Salary	DA	HRA
Less than 4000	30 %	15 %
Greater than equal to 4000 but less than 7000	40 %	25 %
Greater than 7000	50 %	35 %

Write a code in VB for the Click event of the command button , cmdCalculate to read the Salary and calculate the net salary as Salary +DA+HRA.

The List for the above is as follows

Object Type	Object Name	Description
Text Box	txtBsal	To Enter Basic Salary
	txtDa	To display DA
	txtHra	To display HRA
	txtNsal	To display Net Salary
Command Button	cmdCalculate	To calculate the Net Salary

5. a) Define the following 2
- i) Relation
  - ii) Primary Key
- b) What is a join? 1
- c) Define 1NF normal form. 1
- d) What are multiple row functions ? Give examples. 2
- e) Give the output for the following 4
- i) select TRUNC(15.193,-1) from dual;
  - ii) select CONCAT(INITCAP ( 'COMPUTER', 'SYSTEM' ) ) from dual ;
  - iii) select RPAD('INFORMATICS', 15, '\*' ) "RPAD example" from dual ;
  - iv) select MOD(10,3) "MODULUS", SIGN(-10) "SIGN" from dual;
- f) Create the table Employee with the following structure 2

Name of Column	ID	First_Name	Last_Name	User_ID	Salary
Type	Number(4)	Varchar2(30)	Varchar 2(30)	Varchar2(10)	Number(9,2)

Ensure the following specification in created table

- ID should be declared as Primary Key
- User\_ID should be unique
- Salary must be greater than 5000

First\_name and Last\_name must not remain blank

- g) Differentiate between DCL and TCL. 2
- h) Write a command to create a view VU\_Empl which should include Empno,ENAME and Deptno from the table Emp . 2
- i) Name some popular front end software and back end software. 2
- j) What do following commands do ? 2
- i) COMMIT
  - ii) ROLLBACK

6. Consider the following table MOV , answer the questions a) and b)

**Table : MOV**

NO	Title	Type	Rating	Stars	Qty	Price
1	Gone with the Wind	Drama	G	Gable	4	39.95
2	Friday the 13 <sup>th</sup>	Horror	R	Jason	2	69.95
3	Top Gun	Drama	PG	Crusie	7	49.95
4	Risky Business	Comedy	R	Crusie	2	44.95
5	Cocoon	Scifi	PG	Ameche	2	23.95
6	101 Dalmatians	Comedy	PG	Hoffman	1	29.95

a) Write the SQL commands for the following

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- i) Display a list of all movies with Price over 30 and sorted by Price.
- ii) Display all the movies sorted by Qty in decreasing order.
- iii) Display a report listing a movie number, current value and replacement value for each movie in the above table. Calculate the replacement value for all movies as Qty\*Price\*1.15.
- iv) Display a list of all Drama type movies.
- v) Display the type of movies without any duplication.
- vi) Display the number of records in the table.

b) Give the output for the following on the basis of above table MOV

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- i) `SELECT AVG(Price) FROM MOV WHERE Price<30;`
- ii) `SELECT MAX(Price) FROM MOV WHERE Price<50;`
- iii) `SELECT SUM(Price*Qty) FROM MOV WHERE Qty<2;`
- iv) `SELECT RATING FROM MOV WHERE Qty>4;`