CLASS XII
GUESS PAPER
INFORMATICS PRACTICES

TIME: 3 HR   **MM: 70**

Note :
  i.   This Question Paper is divided into 3 sections.
  ii. **Section A** consist of 30 marks .
  iii. **Section B** and **Section C** are of 20 marks each.
  iv. Answer the questions after carefully reading the text.

Section - A

Q 1. Answer the following questions :
  a) How is geography linked to other three building block of an information system?   2
  b) What is the difference between analysis and design ? Can one begin to design without analysis ? Why ?   2
  c) Identify the various types of relationships from the following and also show them diagrammatically :
              i.   A student enroll for various courses in a college
              ii. A department is headed by a faculty member   2
  d) Write a short note on client/server computing. Give an example also.   2
  e) What do you understand by three tier computing model ?   2

Q 2. Answer the following questions :

  a) Name some common properties of following control :   2
          text box , label , option button , checkbox, list box .
  b) What is the usage / significance of variant data type ?   2
  c) What do you understand by the control constructs ? How would you classify them ? 2
  d) What do you mean by scope of a variable ? how many types of scope are supported in VB ?2
  e) What is DSN ? write steps to create a DSN for ODBC .   2

Q 3. Answer the following questions :
   a) How can you combine all the steps of cursor management (declare ,open , fetch and close) into one ? give example.   2
   b) What are comments ? what are different ways of adding comments in PL/SQL?   2
   c) What is subquery ? what is the functionality of ANY , ALL , EXITS ?   2
   d) Compare char and varchar2 datatypes.   2
   e) what are the contents of the correlation variables NEW and OLD when trigger associated with various DML statements are executed ?   2

Section – B

Q 4. A software company wants to conduct few tests and interviews for the posts of web designers and developers . The data regarding the performance of the candidates is gathered using the following interface :

The list of above form is as follows:

Object type	Object name
Form	Frmsoftware
Text box	Txtname Txtintgrade Txttest Txtrate Txtpresentation
Option button	Optdeveloper Optdesigner
Command button	Cmdcheck Cmdnext Cmdover

Write code for the following enhancements to the application :   2
   a) The prompt on the label **"Rating on Designs"** should be set to
         i.   'Rating on illustrated designs ' when the user select the options optdesigner.
         ii. 'Rating on illustrated projects ' when the user select the options optdeveloper.

   b) The label lblpresentation and test field txtpresentation should be visible only if the option button optdeveloper is selected .   2
   c) A function validatedata() has already been defined to check the validity of data . it returns TRUE , if the data is valid and FALSE otherwise. When the user click cmdcheck button ,this function should be called and if the data is valid then eligibility should be checked and a message should be displayed as per following rules :   4
         i.   Interview grading should be >=8
         ii.   Test marks >=75 and rating on illustrated designs / project >7
         iii. for the developers , grading in presentation should be either B+ or A.
   d) when the user clicks the cmdNext button all fields should get cleared and option buttons should be set to the default choice of developer.   2

Q 5. Answer the following questions :

   a) Find the errors from the following code segment and rewrite the corrected code underlining the correction made :   2

```
Dim value = 29 , k as integer
    K=5
    Do
    K=k-2
    If value > 28
            Value = 89;
            Else
            Value = value- 5
    Loop until (k>5)
```

   b) Find the output of the following code segment :   2
        i. Print Lcase (left(mid("INFORMATICS", 7,4),3))
        ii. Format (now , "dddd,mmmm dd, yyyy")

   c) Rewrite the following code segment using select case instead of if else :   3

```
Dim sal as integer
If sal >=10000 then
        Msgbox (" new year bonus is 2000")
Elseif sal>=12000 and sal <=15000 then
        Msgbox (" new year bonus is 5000")
Elseif sal= 20000 then
        Msgbox (" new year bonus is 7000")
Else
        Msgbox (" Bonus not applicable")
End if
```

   d) Write the visual Basic function to calculate the factorial of user input number .For example Factorial of 5 = 5*4*3*2*1 .   3

Section –C

Q 6. Read the question given below and answer accordingly :

a) Write the output produced by the following part of the code in PL/SQL : 3

```
DECLARE
        X NUMBER :=8;
        Y NUMBER := 13;
        Z NUMBER(4);
BEGIN
        WHILE (Z<=50)
        LOOP
                Z:= X+Y;
                X:= Y;
                Y:= Z;
IF  X*Y <=200 THEN
                DBMS_OUTPUT.PUT_LINE( TO_CHAR(X) );
                DBMS_OUTPUT.PUT_LINE( TO_CHAR(Y) );
                ELSE
                EXIT;
                END IF;

        END LOOP ;
END;
```

b) Find the error from the following PL/SQL code and rewrite the corrected code underlining the correction made :   2

```
DECLARE
        R NUM
        Q NUMBER
        BEGIN
                P=7;
                FOR Q = 1 TO 4
                        P=P+Q;
                DBMS.OUTPUT_PUT.LINE( TO_CHAR(P) );
                NEXT Q;
        END;
```

c) What are the restrictions on the PL/SQL statements used in the trigger body ?   2

d) Write a PL/SQL function Checkdiv that takes two numbers as an argument and returns the value 1 if the first argument passed to it is divisible by the second argument, else will return the value 0.   3

Q. 7. Answer the questions based on the table employee given below :

Column Name	Data Type	Size	Constraint
ID	NUMBER	4	PRIMARY KEY
FIRST_NAME	VARCHAR2	12	NOT NULL
LAST_NAME	VARCHAR2	23	NOT NULL
EMAIL_ID	VARCHAR2	14	NOT NULL
SALARY	NUMBER	10	NOT LESS THAN Rs. 5000

a) Write the SQL command to create the table employee including the constraints.   2
b) Write the sql command to display the details of all the employee whose salary is the same as the salary of employee id number 1221.   2
c) Write PL/SQL procedure to find out whether the salary of an employee with id = 2132 is less than 5570 or not . If it is less than 5570 , modify the salary of employee by increasing it 15%.   3
d) Write PL/SQL code to create two statement level triggers ASD_employee and DSA_employee before and after DELETE statement respectively on the table employee which display the message 'ready for deletion ' and 'records Deleted ' respectively.   3