

SAMPLE PAPER - 2
INFORMATICS PRACTICES – Class - XII
SET – Higher Order Thinking Skills

Time allowed: 3 hours

Maximum Marks : 70

Note:

- (v) This question paper is divided into 3 sections.
- (vi) Section A consists of 30 marks.
- (vii) Section B and Section C are of 20 marks each.
- (viii) Answer the questions after carefully reading the text.

SECTION – A

1. Answer the following questions :

- (a) What do you know about the LAMP suit of programs? 2
- (b) If the two related entities are STUDENT AND TEACHER, which type of relationship is shown by them? Also draw the ER model for this relationship. 2
- (c) Why high performance database and machines are needed for data warehouse? 2
- (d) Name the Information Systems that produce the following reports: 2
 - (i) Invoicing detail
 - (ii) Recruitment Summary Report.
- (e) Suggest the situations where we need the following data gathering techniques: 2
 - (i) On – Site Observation
 - (ii) Interview

2. Answer the following questions :

- (a) Can you explain the difference between the following two statements: 1
 - Text1.Text
 - Text1(Index).Text
- (b) A variable is Local but it has Global Lifetime, which type of variable it is? 1
- (c) Dolly declares two variables as follows but none of the declaration is correct, can you suggest why? 2
 - i) Dim i% as Integer
 - ii) Dim 1A as Integer
- (d) Can you skip arguments in a function call? How? 1
- (e) Roshan create an MDI application, but when he runs the application and open the child form the menus of MDI form will disappear, Can you suggest the reason why? 1
- (f) Give the use of Table type, Snap Shot, Forward Only and Dynamic Type Recordset? 4

3. Answer the following questions:

- (a) What is Read Only View? Give an example of it. 2

- (b) Give one advantage and one disadvantage of a serial execution of transaction. 2
- (c) How are errors in a PL/SQL block be managed? Name the errors raised when a query returned: 2
 (i) No rows (ii) Many rows
- d) Suggest the parameter modes for the following: 2
 i) Passed value must not get changed
 ii) A value is to be received from a procedure but used in any expression
- e) Compare and Contrast triggers and constraints. 2

SECTION – B

4. Do as directed:

- a) Rewrite the following code using DO LOOP WHILE construct without changing output. 2

```

Sub My_Arr_Procedure( )
  a = 5
  Do
    Print a
    a = a - 1
  Loop While a <> 0
End Sub

```

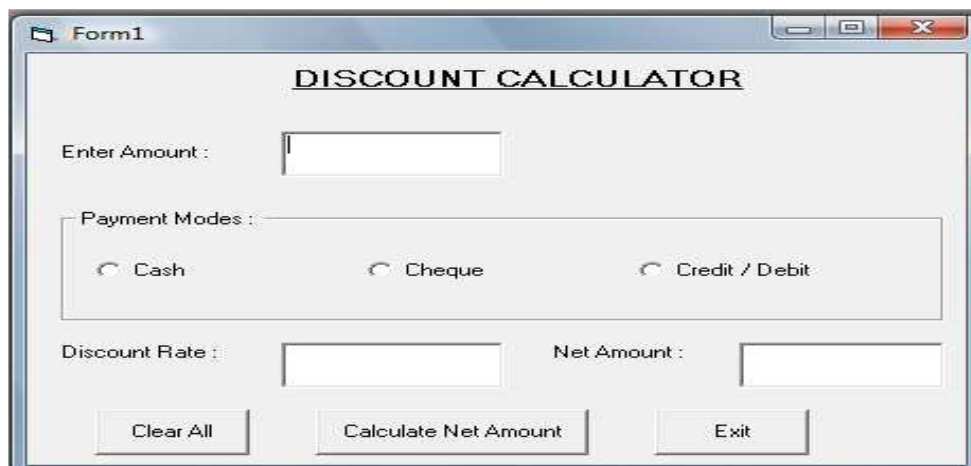
- b) Find the error in the following code and rewrite the correct code, underline the corrections made: 4

<pre> i) Sub MyProc (X as Integer) MyProc = X * X End Sub </pre>	<pre> ii) Private sub Check_Proc() Call MyFun End Sub Function MyFun (byVal a as Integer) MyFun = a + a - 10 End Function </pre>
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- c) Write a VB program to enter a number and print the product of its digit, as if a number entered is 234 then the program gives o/p as 24. 4

5. Read the following case study and answer the questions that follow:

The Cotton County showroom has computerized its billing. A new bill is generated for each customer. The showroom allows three different payment modes. The discount rate is based on the payment mode. The following screen shot used to generate the bill:



The list of controls for the above form is as follows:

Object Type	Object Name	Description
Form	FrmDiscount	The main form
Text Box	TxtAmt	To input the total Shopping Amount
	TxtDisc	To display Discount Rate
	TxtNet	To display Net Price
Option Button	OptCash	To select mode of payment as cash
	OptCheque	To select mode of payment as cheque
	OptCredit	To select mode of payment as credit card
Command Button	CmdCalc	To calculate Discount and Net Amount
	CmdClear	To clear all textboxes
	CmdExit	To exit from the application

- a) Write code for the CmdClear command button to clear all the textboxes. 1
- b) Write the code for the form load event of FrmDiscount so as to 2
- i) Disable the TxtDisc and the TxtNet textboxes and set default choice in the option button as cash.
- ii) Set the focus to the TxtAmt textbox.
- c) Write the code for the change event of the TxtAmt textbox to ensure that the user does not enter a negative or a zero value. If a negative or a zero value is entered then the textbox should be made blank and a warning message should be displayed. 2
- d) Write code for the CmdCalc command button to display the discount rate and net price in the TxtDisc and TxtNet textboxes respectively. Note that net price is calculated as shopping amount – discount amount. The discount amount is calculate according to the discount rate which is based on the payment mode and total shopping amount according to the following table. 5

Payment Mode	Shopping Amount	Discount Rate
Cash	< 10000	20 %
	> = 10000	25 %
Cheque	< 15000	10 %
	> = 15000	15 %
Credit Card	< 10000	10 %
	> = 10000	12 %

SECTION – C

6. Do as Directed:

- a) Write a PL/SQL script to print numbers 2,4,6,8,10,.....,20 using for loop. 2
 b) Find the error(s), if any, in the following code: 2

```

DECLARE
    v_empno NUMBER[4];
    v_empname varchar2(20);
BEGIN
    Select empno, ename, sal Into v_empno, v_ename FROM emp FOR empno = 1234;
END;
```

- c) Find the O/P in the given PL/SQL block. 2

```

Declare
    Count Number;
    Num1 Number;
Begin
    Count :=10;
    For num1 IN 5..8
    Loop
        If Mod (num1,2)=0 then
            Count :=count – num1;
        Else
            Count := count + 2 * num1;
        End if;
        Dbms_output.put_line(count);
    End Loop;
End;
```

- d) Write a PL/SQL function CHECK_YEAR that accepts a date from the user and 4
 returns 1 if the year is a leap year and returns 0 otherwise.

7. Answer the questions based on the table Metro given below.

TABLE : Metro

Column name	Data type	Size	Constraint	Description
MT_No	NUMBER	4	PRIMARY KEY	Metro number
MT_Origin	VARCHAR 2	15	NOT NULL	Name of origin station
MT_Dest	VARCHAR 2	15	NOT NULL	Name of the final destination station
MT_KM	NUMBER	3	CHECK For greater then 10	Total kilometers from origin to destination
MT_Time	NUMBER	4,2	DEFAULT 11.00	Time of the metro to start from the origin station
MT_Cap	NUMBER	3		No. of seats in the metro

- a) Write the SQL command to display the different destination without repetition. 2
 b) Write the SQL command to display number of metros starting from each MT_Origin. 2
 c) Write the PL/SQL code to change the destination OF ALL METROS ENDING AT “ABC” 3
 Station to “XYZ” station which are covering a distance of more than 15 km.
 d) Write the PL/SQL code to create a stored procedure TIME to display the details of all the 3
 metros which start at a particular time of the day which is entered by the user. The time should be accepted as a parameter.