

General Instructions :

1. This question paper is divided into 3 sections.
2. Section A consists of 30 marks.
3. Section B and Section C are of 20 marks each.
4. Answer the questions after carefully reading the text.

Q. 1. Answer the following questions :

1. Expand the following abbreviations and explain in brief : 2
(i) FLOSS
(ii) GNU
2. Write one point of difference between a freeware and free software. 2
3. Write one example to show how Data mining is helpful in decision making. 2
4. How is Post implementation review important during System Development Life Cycle ? 2
5. Identify the type of relationship represented in the following statement and draw an Entity Relationship Diagram to show it : 2
“A customer can buy many items.”

Q. 2. Answer the following questions :

1. Write one difference and one common characteristic between a control and a variable in VB. 2
2. Why do we write comments in a program ? What are the two ways of writing comments in VB ? 2
3. Write the purpose of Select Case statement with the help of an example. Which VB statement can be used in place of Select Case statement ? In the Select Case statement, what happens if every case fails and there is no Case Else option ? 3
4. What is the difference between a function and a sub procedure ? Write one example of each. 3

Q. 3. Answer the following questions :

1. In a PL/SQL code, DBMS_OUTPUT . PVT_LINE is used to display output but the output is not getting displayed on screen. What might have gone wrong ? 2
2. Write one point of difference between Row level Triggers, and Statement level Triggers. 2
3. Explain in brief the purpose of Savepoint statement with the help of PL/SQL code example. 2
4. What is a view ? Why does a view not require any physical storage ? 2
5. Why are named procedures called stored procedures ? Write one advantage of stored procedures. 2

SECTION - B

Q. 4. Read the following case study and answer the questions that follow :

AVON INDIA has computerized its Payroll. The following is the Data Entry screen used by them :

The form details for the above form are given in the following table :

Object Type	Object Name	Description
Form	FrmSalary	The main Form Object.
Text	box txtEmpCode	To enter Employee Code.
	txtName	To enter name of employee.
	txtBasic	To enter Basic Salary of Permanent Employee.
	TxtOverPerm	ter overtime hours worked by Permanent
	txtHRA	To display House Rent Allowance.

	txtCCA	To display City Compensatory Allowance.
	TxtNumDays	To enter number of days worked by Temporary Employee.
	TxtOverTemp	To enter number of hours worked by Temporary Employee.
	TxtSalary	To display Salary earned by Temporary or Permanent employee.
	TxtOverTime	To display OverTime amount earned by Temporary or Permanent employee.
	TxtTotal	To display Total amount to be paid to Temporary or Permanent Employee.
Option Button	OptTemp	To provide information whether of Temporary Category or Permanent Category.
	OptPerm	
Frame	FraTemp	To group controls related to Temporary Employee.
	FraPerm	To group controls related to Permanent Employee.
Command Button	cmdCalculate	To calculate HRA, CCA, OverTime Amount, Salary Amount and Total Amount in case of Permanent Employee. To calculate OverTime Amount, Salary Amount and Total Amount in case of Temporary Employee.
	cmdClear	To clear all the values in Text boxes, Option button in the form.
	cmdExit	To close the application.

Write code to implement the following :

- a. If option button for Permanent Employee is chosen then Controls in the Frame related to Temporary Employee should be disabled and if option button for Temporary Employee is chosen then Controls in the Frame related to Permanent Employee should be disabled. 2
- b. When the user clicks Clear button, all the values stored in text boxes and option button should be cleared. 2
- c. Check that in the text box for Employee code (txtEmpCode) only numeric data is entered. 2
- d. When the command button with caption “Calculate” (cmdCalculate) is clicked, HRA, CCA, OverTime Amount, Salary Amount and Total Amount should be calculated in case of Permanent Employee and OverTime Amount, Salary Amount and Total Amount should be calculated in case of Temporary Employee.

The criterion for calculation is as given below :

For Temporary Employee	Salary is Rs. 250 per day. OverTime is Rs. 50 per overtime hour
For Permanent Employee	HRA is 10% of Basic Salary CCA is Rs. 500 OverTime allowance is Rs. 75 per overtime hour.

Total Amount is the sum total of Salary Amount (TxtSalary) and OverTime Amount (TxtOverTime).

Q. 5. Answer the following questions :

- a. Write the following code segment using For Loop : 2
1=6
x=I
Do While I>=1
x=x-2
If x=0 Then
Print "Zero"
End If
Print I
I=I-2
Loop
5 P.90 T.O.
- b. Write the output that the following code segment will generate : 2
x="Class"
Print Mid (LTrim("Computer Science"),1,4)+"One"
Print(7*4>8+3) And (3^2 < 6/2)
Print Val("16 oranges") + Len(x)
Print InStr("Computers", "ut")
- c. Rewrite the following code segment using Select Case statement : 2
If ch = "A" Then
countA = countA + 1
Elseif ch = "B" Then
countB = countB + 1
Elseif ch = "C" Then
countC = countC + 1
Else
countE = countE + 1
End If
- d. Write a procedure in VB that takes in year of birth of a person as an argument. It displays a message box indicating how many years are left for the person to reach

the retirement age of 60. If the user is older than 65, wish him/her for a long life !
4

SECTION - C

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

1. Rewrite the following PL/SQL loop so that you do not use a loop at all. 2
FOR i IN 1..2
LOOP
IF i = 1 THEN
calc_bonus(president_id, 2000000);
ELSIF i=2 THEN
calc_bonus(ceo_id, 5000000);
END IF;
END LOOP;
90 6
2. Write the output produced by the following part of code in PL/SQL. 2
declare
i number;
q number;
p number;
begin
p:=-2;
q:=5;
for i in 5..7 loop
q:=q+2;
p:=q;
if p>9 then
dbms_output.put_line(p);
end if;
dbms_output.put_line(i);
end loop;
end;
3. Find error(s) in the following PL/SQL code and rewrite the correct code after underlining the corrections made. 2
Declare
P Number;
Pr Number:=0;
FOR X IN 3..6 LOOP
IF MOD(X,3)=0 THEN
PR:=PR*X;
ELSE
PR:=PR-X;
DBMS_OUTPUT.PUT_LINE(TO_CHAR(PR));

END OF LOOP;
END

4. Write a PL/SQL procedure that takes employee code of an employee as a parameter. In the table "Employee", if the commission field (comm) of that employee is empty then set it to 1000. (Field name of employee code : Empno, Commission : Comm) 4

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

Table : SalesPerson

Column Name	Data Type	Size	Description	Constraint
SNum	NUMBER	6	Salesperson's Identification number	PRIMARY KEY
SFName	VARCHAR2	25	First Name of SalesPerson	NOT NULL
SLName	VARCHAR2	25	Last Name of SalesPerson	NOT NULL
City	VARCHAR2	10	City where SalesPerson works	
Sales	NUMBER	9,2	Sales achieved by SalesPerson	
Comm	NUMBER	8,2	Commission earned by Sales Person	

- a. Write the SQL command to Create the above table with constraints. 2
- b. Write SQL command to Create a view consisting of all the Salespersons working in Delhi city. 2
- c. Write an SQL command to display each city along with total sales in that city. 2
- d. Create a Trigger to change the commission amount to 5000 every time the commission amount entered by user exceeds 5000. An appropriate message should also be displayed. 4