Paper - V
PC Software Packages and Programming in C

Time : *Three Hours*]

[*Maximum Marks* : 100
[*Minimum Pass Marks* : 33

नोट : सभी प्रश्नों के उत्तर दीजिए। प्रश्नों के अंक उनके दाहिनी ओर अंकित हैं।
Note : Answer **all** questions. The figures in the right-hand margin indicate marks.

Question No. 1 is compulsory:

1. Attempt the following: 20
   (a)   When we should use dial-up connections.
   (b)   What are branch statement are in C and when we should use them ?
   (c)   Write the step of creating word document.
   (d)   Which of the followings are valid identification:
         my_sal1, 1sal, my_1sal, sal_in_is, nul_in_$, any_sal.
   (e)   Write the step to remove any existing.
         Software from your windows OS.
   (f)   Which of the following are valid constant
         10, 10.9, 0.143, 08, 81, 8.03f, -20.4, 123UL
   (g)   Which of the following are incorrect operation if 'ptr' represent a printer variable.
         ptr++, ptr-ptr, ptr+ptr, ptr X 2, ptr_5, ptr_6.
   (h)   When we should use malloc function inserted at calloc ?
   (i)   When we should use structure instead of union ?
   (j)   What are uses of spreadsheet ?

2. What is paragraph ? Explain the feature available in M.S. Word for paragraph formatting with example.   16
   OR
   What is slide in power point ? Explain the various features available in M.S. Power point for slide with suitable example.   16

3. Suppose you have the following spreadsheet :

S.No.	Name	Father Name	Age	12th percentage
1.	Amit	Suresh	20	80
2.	Ramesh	Narayan	35	85
3.	Syam	Sunder	40	82

Do the following:
   (a)   Create a column with name "full Name" which will have value by applying formula on name and father name column like if name is "Amit" and father name is "suresh" then the corresponding cell value in column full name will be "Amit S/O suresh" aspect same for all rows.
   (b)   Write step to short the table in desending order by 12th percentage.
   (c)   Calculate the average percentages of all student using formula. (write steps to apply formula)
   OR
   Write the steps to create table in M.S. Access: details of table are follous:
   Table Name: Students
   Table   Column1 → Roll No   Integer
              Column 2 → SName   Char
              Column 3 → age   Integer
              Column 4 → DOB   Date
              Column 5 → Dept   Text
              Column 5 → class   Text
   Make the Roll No primary key.
   Make the Dept foreign key.

4. Write a simple program to print the following pattern using while loop and for loop.   16
   (take the value of n from keyboard)

                     1
                   * * *
                 2 2 2 2 2
               * * * * * * *
             3 3 3 3 3 3 3 3 3

   Where n is 3.
   OR
   When we should use bitwise operator ? Write a simple program to demonstrate the uses of all bitwise operators.

5. Consider the two dimentional array as follows: 16

10	5	30	40
15	20	25	10

   Write a simple program to do the following:
   (a)   Calculate the display row wise average of the above array
         Ex: 10+5+30+40 = 85/4 = 21.25
   (b)   Calculate and display column wise average of the above array like row.
   OR
   Write a simple program to create structure name "std" consisting filed ("RNo", "Name", "Age", "Class") and read the value for each filed from keyboard and display these value on console screen

6. Write a simple program to create dinemic array of double (size n) using calloc function and calculate the average of array elements.   16
   OR
   Write a simple program to read the string from keyboard until user choose (not to read string) and store the readed string in the file named "myfile.txt" .