

- Instructions :**
- (1) All questions are compulsory.
 - (2) Illustrate your answers with neat sketches wherever necessary.
 - (3) Figures to the right indicate full marks.
 - (4) Assume suitable data, if necessary.
 - (5) Preferably, write the answers in sequential order.

1. Attempt any **FIVE** of the following : [10]
 - (a) Define pointer. Write syntax for pointer declaration.
 - (b) Draw and label symbols used in flow chart.
 - (c) Define : (i) Two dimensional array (ii) Multi-dimensional array
 - (d) Define type casting. Give any one example.
 - (e) Define Array
 - (f) State different data types supported by 'C' language.
 - (g) Give syntax of declaring and initialization of structure.
2. Attempt any **THREE** of the following : [12]
 - (a) Explain do - while loop with example.
 - (b) Develop a program to accept an integer number and print whether it is palindrome or not.
 - (c) Explain the use of the following function with syntax :
 - (i) Strcmp ()
 - (ii) Strlen ()
 - (d) Explain recursion functions with example and state its advantages.
3. Attempt any **THREE** of the following : [12]
 - (a) Explain conditional operator with example.
 - (b) Explain any four library functions under conio.h header file.
 - (c) Write an algorithm and flowchart to swap the contents of two variables.
 - (d) Explain array of structure with example.
4. Attempt any **THREE** of the following : [12]
 - (a) Write a program to accept the value of year as input from the keyboard & print whether it is a leap year or not.
 - (b) State and explain four arithmetic operations perform on pointer.
 - (c) Write a 'C' program to find whether the given number is prime or non prime.
 - (d) Write a 'C' program to declare a structure 'student' with members as Roll no., name and marks. Accept and display data for one instance.
5. Attempt any **TWO** of the following : [12]
 - (a) Write a program for addition of two 3×3 matrices.
 - (b) Write a program to exchange values of two variables using pointers.
 - (c) Write the program to accept 10 (ten) numbers from user using array, search and print the location of a given number.
6. Attempt any **TWO** of the following : [12]
 - (a) Develop a program to find diameter, circumference and area of circle using function.
 - (b) Write a program to print table of a given number.
 - (c) Write a 'C' program to find sum of natural number entered by user.

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Paper Discussion Schedule for: F.Y. Diploma Sem.-II

Date	Day	Timing	Centre
13 April 2019	Saturday	8 a.m. to 11 a.m.	Dadar ,Borivali, Nerul and Thane
13 April 2019	Saturday	12 p.m.to 2 p.m.	Kalyan