

# P131/CMP502/EE/20190209

Time : 3 Hours

Marks : 80

## Instructions :

1. All Questions are Compulsory.
2. Each Sub-question carry 5 marks.
3. Each Sub-question should be answered between 75 to 100 words. Write every questions answer on separate page.
4. Question paper of 80 Marks, it will be converted in to your programme structure marks.

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1. Solve any **four** sub-questions.
    - a) Explain Computer System. State the different generations of Computers. 5
    - b) Explain Flow Chart and Algorithm with an example. 5
    - c) State the features of C programming Language. 5
    - d) Explain the different looping Constructs of C language. 5
    - e) Write a note on if and if-else. 5
  2. Solve any **four** sub-questions.
    - a) Explain the different data types of C. 5
    - b) What is a function? Write the syntax of function declaration, function definition and function call. 5
    - c) What are Arrays? Explain the declaration, initialization and accessing elements of two dimensional arrays. 5
    - d) Explain any 2 string functions with an example. 5
    - e) Explain the terms auto, register, static and extern. 5
  3. Solve any **four** sub-questions.
    - a) What is a Union? Explain with suitable example. 5
    - b) Explain a pointer constant. 5
    - c) Explain printf() and scanf() functions with example. 5
    - d) What is a pointer? What is the use of pointer in C? 5
    - e) Define a Structure. Create a structure date with members dd,mm, yyyy initialise the structure with today's date. 5
  4. Solve any **four** sub-questions.
    - a) Write the general syntax of a switch construct. Explain its working. 5
    - b) Explain recursive function with an example. 5
    - c) Write a function to swap two variables, call the function by reference. 5
    - d) Draw a flow Chart to display the table of a number entered through the keyboard. 5
    - e) Explain #define with an example. 5