P131/CMP502/EE/20170103

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.

1. Solve any **four** sub-questions.

     a)   What are the different types of input and output devices of a Computer System?   5

     b)   Differentiate between Flow Chart and Algorithm.   5

     c)   Write a note on primary and secondary data types of C language.   5

     d)   Explain the difference between while and do while loop.   5

     e)   Write the syntax of if else construct and explain its working.   5

2. Solve any **four** sub-questions.

     a)   State the different generations of Computer Language. Explain why C is termed as middle level language.   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 one dimensional array.   5

     d)   Explain any 5 string functions.   5

     e)   Explain the different types of storage classes in C.   5

3. Solve any **four** sub-questions.

   a) What is a Union? Explain with suitable example.   5

   b) What is a Pointer? What is the use of pointer in C ?   5

   c) Explain gets() and puts() functions with example.   5

   d) Write a note on pointer arithmetic.   5

   e) Define a Structure. Create a structure complex with members real, image initialise the structure.   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 value.   5

   d) Draw a Flow Chart to display the factorial of a number entered through the keyboard.   5

   e) Explain Array of structure with an example.   5