## I B. Tech I Semester Supplementary Examinations, August/Sep - 2022 <br> COMPUTER PROGRAMMING

(Com to ECE, Aero E, Auto E, Bio-Tech. Chem. E, CE, CSE, IT, EIE, EEE, ME, Metal E, Min E, PChem. E, PE, ECom. E)
Time: 3 hours
Max. Marks: 70

## Note: 1. Question Paper consists of two parts (Part-A and Part-B) <br> 2. Answering the question in Part-A is Compulsory <br> 3. Answer any FOUR Questions from Part-B

## PART -A

1. a) List the features of an interpreter.
b) What are format modifiers? Write the importance of the same.
c) Write the syntax of "nested if"
d) Write the advantages of pointers.
e) How do you initialize a two-dimensional array? Give an example.
f) What is the Dangling pointer?
g) Write the purpose of typedef with a suitable example.

## PART -B

2. a) Compare the features of Procedural and Object-Oriented Languages
b) Write the features of Low-level languages.
3. a) List and explain the relational and logical operators with examples.
b) Discuss various explicit and implicit type conversions with examples.
4. a) Compare the working of while and do-while loop with suitable examples.
b) Write a C program to print the reverse of a given number.
5. a) Write a C program to print the first n even numbers using call by reference.
b) Compare and contrast the features of Recursion and Iteration with suitable examples.
6. a) Write a C program to pass an array as a parameter to a function that computes the transpose of the matrix.
b) What are the various Library Functions available to support strings? Explain the same with an example.
7. a) Explain the features of self-referential structures with a suitable program.
b) What are the various Dynamic memory management functions available in C ?

Explain.

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