

**I B. Tech I Semester Supplementary Examinations, January - 2020**  
**COMPUTER PROGRAMMING**

(Com. to CE, ME, CSE, PCE, IT, Chem E, Aero E, AME, Min E, PE, Metal E, Textile Engg)

Time: 3 hours

Max. Marks: 70

- Note: 1. Question paper consists of two parts (**Part-A** and **Part-B**)  
2. Answering the question in **Part-A** is Compulsory  
3. Answer any **THREE** Questions from **Part-B**
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**PART -A**

1. a) What is the purpose of comma operator? Within which statement does the comma operator usually appearing? (4M)
- b) Give the comparison between iteration and recursion. (4M)
- c) Declare one dimensional, 5 elements integer array 'A1' and initialize all values. (3M)
- d) If break was not given in the switch statement, what happens? Explain with example. (4M)
- e) What is indirection operator and what is its role in pointers? (4M)
- f) How does the fopen() works? Explain it with example. (3M)

**PART -B**

2. a) Describe the steps involved in program development process. (8M)
- b) Give the general structure of a C program. Explain various components in it. (8M)
3. a) Differentiate the conditional operator with if else statement. Explain with the help of an example. (8M)
- b) Write a C program to calculate  $m^n$  value using while and do while loop. (8M)
4. a) Write a C language program to enter n elements in an array and find second smallest number from an array. (8M)
- b) Discuss in details about local variables and global variables with respect to their scope and extent. (8M)
5. a) Define pointer. How Array will be passed to function using Pointers? (8M)
- b) How two dimensional arrays are accessed using pointers? Explain. (8M)
6. a) Write a C program to define structure for class containing class, name, no. of students and block no. Read 5 records and display them. (8M)
- b) Is it possible to nest the structure? Explain with example. (8M)
7. a) Give an overview of formatted and unformatted I/O function for files in C. (8M)
- b) Write a C program to read and display a text from the file. (8M)

