

**I B. Tech I Semester Supplementary Examinations, May/June - 2019**  
**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) Give the use of conditional operator. What is its associativity? (4M)
- b) Write a program in C to print the numbers from 4 to 9 and their squares. (4M)
- c) What is function prototype? Give one example of function prototype. (3M)
- d) What is the difference between calloc() and malloc() ? (4M)
- e) Give the significance of typedef statement. (4M)
- f) What role does the fseek() plays and how many arguments does it have? (3M)

**PART -B**

2. List and explain formatted input-output statements and standard input-output statements with example. (16M)
3. a) What are selection statements? What is the necessity of selection statements? Illustrate. (8M)
- b) Explain counter-controlled and condition-controlled loops with examples. (8M)
4. a) Write a program using array to read the ten integer numbers and find the counts for number of positive and negative numbers. (8M)
- b) What are the constraints for defining a Recursive function? Explain with an example. (8M)
5. a) Write a C program using command line argument to add three numbers. (8M)
- b) What are the different operations that can be performed on pointers? Explain with an example. (8M)
6. a) How to pass structure variable to a function? Explain with an example. (8M)
- b) Compare and contrast structures and unions. (8M)
7. a) State and explain various modes of file opening and file closing. (8M)
- b) Write a C program to display the contents of a file using command line arguments. (8M)