

I B. Tech I Semester Supplementary Examinations, May - 2018**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 compulsory3. Answer any **THREE** Questions from **Part-B**

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**PART -A**

1. a) Explain conditional operator. What are its uses? (4M)
- b) Name the control structure that supports multi-way selection. Give its syntax. (3M)
- c) What are different preprocessor directives available in C? (4M)
- d) Describe the use of command line arguments. (3M)
- e) What is masking? Does C support masking? (4M)
- f) What is the use of fseek() in C? (4M)

**PART -B**

2. a) Explain the fundamental units of a computer with a block diagram. (8M)
- b) What is type casting? When and where it is required? Give its classification. (8M)
3. a) How conditional statement is different from branching statements? Explain them with suitable examples. (8M)
- b) Write a C program that performs transpose of a give matrix. (8M)
4. a) What are the steps involved in writing a function in C? Explain with an example. (8M)
- b) Write a recursive function for calculating factorial of a given number. (8M)
5. Discuss about pointer arithmetic in C with suitable examples. (8M)
6. a) How the members of Union are initialized and accessed? (8M)
- b) How structure elements are accessed using pointers? Which operator is used? Give an example. (8M)
7. a) Compare and contrast fwrite() function with fprintf() function. (8M)
- b) What is a file? Explain different modes in which a file can be opened in a C Program. (8M)