R13

SET - 1

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 compulsory**
3. Answer any **THREE** Questions from **Part-B**
~~~~~~

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)