

**I B. Tech II Semester Supplementary Examinations, April/May - 2019****COMPUTER PROGRAMMING**

(Com. to ECE, EEE, EIE, Bio-Tech, E Com E, Agri E)

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) "C is a structured language". Justify the validity of the statement. (3M)
- b) Write the differences between break and continue. (4M)
- c) Compare static and extern storage classes. (4M)
- d) What is dangling memory problem? How to solve it? (4M)
- e) Write any three applications of Union. (3M)
- f) Differentiate between scanf and fscanf functions with examples. (4M)

**PART -B**

2. a) Draw a flowchart to count positive and negative numbers in a given list terminated with zero. (8M)
- b) Write an algorithm for finding whether the given number is Armstrong or not. (8M)
3. a) Write a C program to multiply two 'm × n' matrices. Cover all necessary conditions. (8M)
- b) Discuss the various string functions that can be performed on strings. (8M)
4. a) Write a C program with recursive function that counts the number of vowels in a string. (8M)
- b) Write a C program to check whether a given character is a vowel or not. (8M)
5. a) Write a C program to swap two numbers using pointers and functions. (8M)
- b) Write a program to read an array as user input, access elements of an array and copy array into another array using pointers. (8M)
6. a) Write a C program using a pointer to structure illustrating the initialization of the members in the structure. (8M)
- b) How do you declare, initialize and access a structure containing arrays? Explain the same with examples. (8M)
7. a) Write a program that opens a file and deletes the blank spaces. (8M)
- b) Write a C program to write all the members of an array of structures to a file using fwrite(). Read the array from the file and display on the screen. (8M)