

I B. Tech I Semester Supplementary Examinations Dec - 2016

COMPUTER PROGRAMMING

(Com. to CE, ME, CSE, PCE, IT, CHEM, AE, AME, MM, PE, MTE, TE)

Time: 3 hours

Max. Marks: 70

Question Paper Consists of **Part-A** and **Part-B**
Answering the question in **Part-A** is Compulsory,
Three Questions should be answered from **Part-B**

PART-A

1. (a) What are the Escape Sequences present in C?
(b) Write a code for selecting the greatest of 4 numbers using conditional operator.
(c) What is a function prototype? Give an example of it.
(d) What are command line arguments? Explain.
(e) Compare and contrast structures and unions.
(f) Compare the I/O operations of binary and text files.

[4+4+3+4+3+4]

PART- B

2. (a) Draw a flowchart to check whether the given number is zero, positive or negative.
(b) Distinguish between logical and bitwise operators. [8+8]
3. (a) What is the advantage of switch statement over if-else statement?
(b) How do you create multidimensional arrays in C? Explain with an example. [8+8]
4. (a) What are the different ways of passing parameters to the function?
(b) What is mean by recursion? Explain the purpose of recursive function with an example. [8+8]
5. (a) What is a pointer? Explain how the pointer variable declared and initialized.
(b) What is dynamic memory allocation? Write and explain the different dynamic memory allocation functions in C. [8+8]
6. (a) What is a structure? Explain the syntax of structure declaration with example.
(b) What are bit-fields? Where are they used? How are they different from other variables? [8+8]
7. (a) What is a file? Explain how the file open and file close functions handled in C.
(b) Write a program that reads a line of text from a data file character by character and displays the text on the screen. [8+8]

