

I B. Tech I Semester Supplementary Examinations May/June - 2016

COMPUTER PROGRAMMING

(Common to CE, ME, CSE, PCE, IT, ChemE, AeroE, AME, MinE, PE, MetalE, Textile Engg.)

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 is a algorithm? What is flow chart? List the difference between them.
(b) Write a program to print numbers from 1 to 100 using while loop.
(c) What is recursion? Write a program to find factorial of a number using recursion.
(d) What is dangling memory?
(e) What is a self referential structure?
(f) What is a file? List Formatted I/O functions.

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

PART-B

- 2. (a) Explain different computer languages.
(b) Explain basic data types and their sizes. [8+8]
3. (a) Explain multi-way selection statements with example.
(b) Write a C program to multiply given two matrices. [8+8]
4. (a) Explain the following storage classes with example
(i) extern
(ii) auto
(iii) register
(iv) static
(b) Explain the following
(i) Header files
(ii) C preprocessor [8+8]
5. (a) What is a pointer? Explain address arithmetic with example.
(b) Explain dynamic memory management functions with example. [8+8]
6. (a) Explain the meaning and purpose of the following
(i) Template (ii) Tag (iii) sizeof (iv) struct
(b) What is structure? Explain array of structures with example. [8+8]
7. (a) Explain the following high level I/O functions
(i) fopen()
(ii) fclose()
(iii) getw()
(iv) putw()
(b) Two files DATA1 and DATA2 contain sorted lists of integers. Write a program to produce a third file DATA which holds a single sorted, merged list of these two lists. [8+8]

