

***B.Tech Degree I & II Semester (Combined) Examination
June 2010***

**IT/CS/EC/CE/ME/SE/EB/EI/EE/FT 108 COMPUTER PROGRAMMING
(2006 Scheme)**

Time: 3 Hours

Maximum Marks: 100

PART – A
(Answer ALL questions)

(8 x 5 = 40)

- I. (a) Distinguish a macro and function in C?
(b) Distinguish break and continue with example.
(c) Explain type def in C? Show examples too.
(d) What are unions in C? Explain with example.
(e) What is register storage class? Show examples too.
(f) What is recursion? Explain with example.
(g) Distinguish pointer to an array and array of pointers with examples.
(h) What is a C structure? Show an example too.

PART – B
(For all the programs explain logic with examples)

(4 x 15 = 60)

- II. Write a C program to reverse a 3 digit number.
OR
III. Write a C program to print first 50 prime numbers.
IV. Write a C program to convert decimal to Octal numbers.
OR
V. Write a C program to check whether a string is palindrome.
VI. Write a C program to prepare a rank list of students. Inputs being roll no., name and marks. Rank list should be sorted according to marks in descending order. Use array of structures.
OR
VII. Write a C program to sort 10 names alphabetically.
VIII. Write a C program to multiply two matrices using pointer notation.
OR
IX. Write a C program to transpose a matrix.