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B.Tech. Degree I & II Semester (Combined) Examination June 2014

**IT/CS/EC/CE/ME/SE/EE/EI/EB/FT 1108 COMPUTER PROGRAMMING
(2012 Scheme)**

Time : 3 Hours

Maximum Marks : 100

PART A
(Answer *ALL* questions)

(8 x 5 = 40)

- I. (a) Explain different categories of software.
- (b) Describe problem solving design tools.
- (c) Distinguish between a compiler and an interpreter.
- (d) What is an identifier? What are the rules for naming an identifier?
- (e) Describe different types of branching statements in C.
- (f) What is an enumerated data type? Give an example for its usage.
- (g) Explain structure data type. What is meant by structure within structure? Give example.
- (h) Explain different types of files and four file handling functions with its prototype.

PART B

(4 x 15 = 60)

- II. Explain the steps involved in program development process in detail. (15)
- OR**
- III. Draw a digital computer organization and explain each part. (15)
- IV. (a) Explain fundamental data types in C, its size and range of values that can be stored in each. (10)
- (b) Write short notes on type conversion in C. (5)
- OR**
- V. (a) Explain formatted input and output functions of C in detail. (10)
- (b) Explain conditional operator with an example. (5)
- VI. (a) Describe jump statements in C with example. (5)
- (b) Write a function that prints each row sum and each column sum separately of a matrix. Invoke that function in main program. (10)
- OR**
- VII. (a) Explain call by value and call by reference. (5)
- (b) Write a program to find sum of digits of a number using recursion. (10)
- VIII. (a) What is dynamic memory allocation? Give library function used for that with syntax. (5)
- (b) Write a function to accept two strings and return a concatenated string. Invoke that function in main program. (10)
- OR**
- IX. (a) What are command line arguments? Write a command line program to find largest of three numbers. (8)
- (b) Write a program to copy the contents of one file into another. (7)
