FIRST SEMESTER

B.Tech.(B Group)

END SEMESTER EXAMINATION

NOVEMBER-2015

CO-101 Programming Fundamentals

Time: 3:00 Hours

Max. Marks: 40

> Note: Answer any five. All questions carry equal marks.
> Assume suitable missing data, if any.

Q1 (a) What is algorithm and flow chart? How it is used as a problem-solving tool. 4

(b) Using pointers, write a function that receives a character string and a character as argument and delete all occurrences of this character in the string. This function should return the corrected string with holes. 4

Q2. (a) What is an operator? Explain the relational, logical operators with examples. 4

(b) Write a program in C to print the numbers from 4 to 9 and their squares. 4

Q3. (a) Write the guidelines, syntax with examples to use printf() function in C language. 4

(b) Explain the two way selection (if, if-else, nested if-else, cascaded if-else) in C language with syntax. ·4

Q4. (a) What is the relationship between formal arguments and actual arguments? How they can be declared within a function? Give relevant code. 4

(b) Write a C program that will enter a line of text, store it in an array and then write it out backwards. Assume that the length of the line will not exceed 80 characters. 4

Q5. (a) What is meant by Nested structure and Array of structure? Explain it with example 4

(b) How a multidimensional array defined in terms of a pointer? Explain with example.   4

Q6. (a) How can an entire structure be passed to a function and returned from a function? Discuss in detailed manner.   4

(b) Explain the terms fopen, fclose, break, void   4

Q7. Write short notes (any two)   8
   (a) Call by reference
   (b) Features of OOP
   (c) Bubble sort

3 < 6

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3 4 1 2 7
3