PURBANCHAL UNIVERSITY 2015

Full Marks: 80 /Pass Marks: 32

Contd. ...

B. E. (Computer/E&C/Electrical)/First Semester/Final

Time: 03:00 hrs.

BEG175CO: Computer Programming (New Course) Candidates are required to give their answers in their own words as far as practicable. All questions carry equal marks. The marks allotted for each sub-question is specified along its side. Answer EIGHT questions. 1(a) What is C? Explain the structure of C Program. 5 (b) What is debugging and testing? Explain program documentation. 3+22(a) Write a C program to find the sum of following series. 6 $1+1/2^2+1/3^2+1/4^2+....+1/n^2$ (b) What are variable and constant? Explain with the help of examples. IeroSpark.com 3(a) What are algorithm and flowchart? Explain. 4 (b) Write a C program that calculates LCM of two input numbers. 4(a) Explain break, continue and exit statement with example. 5 (b) Write a program in C that calculates the sum of first N natural numbers using recursion. 5 5(a) Explain any four basic input-output functions. 4 (b) Write a program to draw two concentric circles with radius 50 and 100 units. 6 6(a) Explain briefly call by value and call by reference with example. 5 (b) Write a program to reverse a given string. 5 7(a) What is array? How will you pass array to a function? Explain with example. 1+4

- (b) What is pointer? Write a simple program to determine the total number of vowels in a string using pointer.

 1+4
- 8(a) What is structure? How will you declare an array of structure?

 Differentiate between structure and union. 1+2+2
 - (b) What is a file? How can you open and close a data file? Explain with example.
- 9(a) Write short note on any FOUR:

 (a) Dynamic Memory Allocation

(b) Conditional operator

- (c) Precedence and Associativity
- (d) Switch statement
- (e) Data types

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