(Please write your Exam Roll No.)   Exam Roll No. 049219020 ...

END TERM EXAMINATION
FIRST SEMESTER [BCA] DECEMBER 2015

Paper Code: BCA-105	Subject: Introducing to Programming Language Using C
Time: 3 Hours	Maximum Marks: 75

Note: Attempt any five questions including Q.no.1 which is compulsory.

Q1 (a) What do you mean by term 'Data Type'? Explain any four data types with examples.   **(2.5x10=25)**

(b) Differentiate between 'Break' and 'Exit' statements.

(c) Differentiate between 'Call by Value' and 'Call by Reference'.

(d) Explain the concept of 'Pointer' with the help of suitable example?

(e) Write a program to swap two numbers without using third variable.

(f) Explain the use of 'Continue' statements?

(g) What do you mean by 'Recursive Functions'?

(h) Differentiate between const char *p and char const *p.

(i) Explain the concept of 'Static Variable' with the help of suitable example.

(j) What is "Enumerated Data Type"? Explain with suitable example.

Q2 What are the different 'Control Structures' used in C language? Explain all of them with suitable examples.   **(12.5)**

Q3 (a) Write a program to display first n prime numbers.   **(6)**

(b) Write a program to calculate the factorial of given number.   **(6.5)**

Q4 (a) Explain the concept of 'Arrays'. How to declare & initialize 2-Dimensional array? How 2-Dimension arrays are stored in memory? Explain with example.   **(6)**

(b) Write a program to accept a string from user. Find out whether the string is palindrome or not with the help of user defined function. **(6.5)**

Q5 What are various 'Storage Classes' in C. Explain their concept and usage with the help of user defined function?   **(12.5)**

Q6 (a) What is 'File pointer'? Explain any five 'File handling Functions'. Write a program to copy contents of one text file to another text file. **(6.5)**

(b) Explain the concept of 'Pointer to array' with the help of suitable example.   **(6)**

Q7 (a) Explain the concept of 'Preprocessor Directive"? Differentiate the simple macro, macro with argument and control directives with examples?   **(8.5)**

(b) What is the difference between 'Structure' & 'Union'? Explain with example.   **(4)**

Q8 (a) Write a program to count the number of vowels in a given string? **(6.5)**

(b) Write a program using array to read ten integers and find out total number of positive and negative numbers.   **(6)**

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