END TERM EXAMINATION

First Semester [BCA] December-2011

Paper Code: BCA105	Subject: Introduction to Programming Language Using C (Batch: 2011)
Time : 3 Hours	Maximum Marks :75

Note: Attempt one question from each unit including Q.no.1 which is compulsory.

Q1 Attempt all questions:- (2.5x10=25)
(a) What do you mean by ternary operator?
(b) Write any five keywords in C language.
(c) What is a macro?
(d) Explain bitwise operators.
(e) What is dynamic memory allocation?
(f) Differentiate between structure and union.
(g) What do you mean by recursive function?
(h) Write any two functions of Process. h.
(i) What is a datatype? Write any 4 basic datatypes used in C language.
(j) Why should the use of GOTO be avoided?

UNIT-I

Q2 (a) Write a program to check if a given string is a palindrome string or not. (6)
(b) What do you mean by control constructs? Explain any three of them. (6.5)

OR

Q3 (a) Write a program to find roots of a quadratic equation. Check for all conditions. (6)
(b) List the different types of loop control statements and explain them with suitable examples. (6.5)

UNIT-II

Q4 (a) Write a program using loops to multiply two matrices. (6)
(b) What are functions in C language? Differentiate between Call by Value and Call by reference using suitable example. (6.5)

OR

Q5 (a) Write a program using pointers to swap values of two characters. (6)
(b) What are storage classes in C? Explain all of them in detail. (6.5)

UNIT-III

Q6 (a) Write a program to declare members of a structure using typedef and to display contents of the structure. (6)
(b) What is the difference between structure and union? Explain with example. (6.5)

OR

Q7 (a) Write a program to declare any enumeration data type and to display their integer values of screen. (6)
(b) Explain any five file handling functions. Write a program to copy contents of one text file to another text file. (6.5)

UNIT-IV

Q8 (a) What are header files? Give the format of any three library functions for each of these header files: conio.h, math.h, stdio.h (6)
(b) What are string manipulation functions? Explain. (6.5)

OR

Q9 (a) Write format of the following library functions with examples:- (6)

fabs()	labs()	fflush()	getch()
getche()	log()		

(b) Write short notes on operators # and ##. (6.5)

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