

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 ~~Write~~ 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)