## END-TERM EXAMINATION

FIRST SEMESTER [BCA] - DECEMBER 2005

Paper Code: BCA105		Subject: Programming with C					
Time: 3	Hours	(Batch	- 2005)	Maximum Marks: 75			
		Note: Att	tempt all quest	estions.			
Q.1	help of examp  (b) Give syn  (c) Give the  (d) How we advantage dimension  (e) Explain of examp  (f) Explain files can	xample.  Itax of switch difference by define two- ge of this de onal array? the difference oles.  with the hele be opened intax of one one one	th statement in between autom dimensional artificition over received between structure of command in C language.	matic and external variables. 3 array in C using pointer? What is normal method of defining two-structure and union with the help ands the different modes in which			
	(iv) proce	ess.h					
			LINIET				
			UNIT-I				
Q.2	logical, e also indice (b) Write a (line.  (a) Give the also explostatement (b) Write a (	etc.) in C lar cate their ass C program t syntax of w ain with the	or of exartaced by while	ors (arithmetic, unary, relational, creasing order of precedence and 6.5 aber of characters and words in a 6 de and for loop statement in C and ample that do-while and for loop le loop statement. 6.5 array of n numbers in increasing			

## UNIT-II

Q.3/	(a)	Write C function for calcu	lating	factorial	of a	numbe	er both
	()	iteratively as well as recursive	ely.				

(b) Write a C function void itpa(int n, char SI[]), which converts integer n to string S.6.5

OR

(a) Write a C function for swapping to integer, when these integers has to be passed as parameters to this function. Explain the parameter passing method required to e used for this function.

6

(b) Write & C function int atoi (char S[]), which converts string S to integer and return its value.6.5

## UNIT-III

0.4

Write a complete C program which reads the students records (consisting of roll no., name, and marks) from a file and print them in the decreasing order of their marks.

OR

Write a complete C program which takes form the keyboard the employees records (consisting of employee id, name, salary) and store these records in a file in decreasing order of their salary.

12.5

## UNIT-IV

- Q.5 Write source code for following C standard library functions. 12.5
  - (a) char \* strcpy(s,c+), copy string C+ to string S, including '0'; return S.
  - (b) char \* strcat(s,c+) concatenate string C+ to end of string S; return S.
  - (c) int stremp(Cs, C+) compare textcographically string Cs to string C+; return < 0 if CS < C+, 0 if CS = C+, or > 0 if CS > C+.

OR.

Write source code for following C functions: -

12.5

- (a) Double atof (const char \* S) converts S to double.
- (b) Void ftoa (double x, char \* S) converts double x to string S.