END-TERM EXAMINATION



Subject: Programming with C Paper Code: BCA-105 Balch: (2005-2007) Paper Id-20105 Maximum Marks: 75 Time: 3 Hours Note: Attempt all questions. Internal choice is indicated. Describe the purpose of the qualities const and volatile. (3) Q.1 (a) What do you mean by casting a value? (3) (b) (3) Write six mathematical functions. (c) How strings are printed? Explain briefly with examples. (4) (d) In what ways does a switch statement differ from an if statement? (4) (e) Differentiate between structure and union with suitable examples. (4)(f) Write syntax of two functions each from the following standard libraries: (4) (g) process.h (i) stdlib.h (ii) UNIT-I Explain various looping constructs of C with suitable code segments and their relative Q.2 merits and demerits. (12.5)OR (12.5)Describe the following operators with C code Conditional operator (i) Bitwise operators (ii) Comma operator (iii) UNIT-II Differentiate call by value and call by reference mechanism. Write a swap Q.3 function to inter change the value of two integers. (6.5)(b) What do you mean by Pointers to function? Write C code to calculate $\sum_{i=1}^{n} x^{2}$ (i.e. $1^{2} + 2^{2} + - - - n^{2}$). (6) What are the various storage classes? Illustrate the use of REG class. (6.5) (a) (b) Write down a C program using pointers to compute the sum of all elements stored in an array. (6) UNIT-II Q.4 Explain the following with C code segments: (12.5)Structures within structures and self referential structure (ii) Arrays within structures Structures as function parameters Write a complete C program which takes from the keyboard the student records (consisting of roll no., name, class, percentage of marks) and store these records in a

file in decreasing order of then percentage of marks.

UNIT-IV

- Q.5 Write a complete C program which displays the use of two functions each from the following standard libraries: -(12.5)
 - string.h (i)
 - (ii) math.h
 - (iii) ctype.h
 - (iv) process.h

What is a File pointer? Write a program to copy the contents of one file into another.

Exam Roll No. 008 6012008

END TERM EXAMINATION

FIRST SEMESTER [BCA] DECEMBER-2008 Subject: Programming with C Paper Code: BCA 105

Paper Id-20105 (Batch		(Batch 2005-2	2005-2008)	
	: 3 Hours	Maximum M	arks :75	
Note: Attempt any five questions.				
Q1.	Define '20' C-keywords used in C-programming lang keywords.	guage. Explain briefl	y each (15)	
Q2.	What do you understand by relational and logi programming language? Provide examples support y		in C- (15)	
Q3.	Write a C-program to find a palindrome string. String palindrome string has a feature to get the same backward direction an example is 'MADAM'.			
Q4.	(a) Write down the differences between structure and (b) Write down the differences between while statement.		(8) - while (7)	
Q5.	Discuss the feature of the following headers files. (a) Stadio. h (b) Conio.h (c) Stdlib.h (d) C type.h (e) String.h	(5	x3=15)	
Q6.	(a) Write a C-program to multiply two matrixes allocation.(b) What do you understand by malloc and calloc fundaments.		nemory (12) (3)	
Q7.	Explain the following: (a) Why does got statement is not favourable in C-pro (b) What are the value range of int and character data (c) Why does" # include" is used in G-programming. (d) What do you understand by "passing values" functions?	a types?	(5) (3) (3) nces" in (4)	
Q8.	Write short notes on any three:	(8	5x3=15)	

(a) Top-down design

(b) Bit-wise operators

(c) Array and pointer relationship?
(d) File handling

(e) Break and continue operator



END TERM EXAMINATION

FIRST SEMESTER [BCA] DECEMBER-2009

Paper Code: BCA105 Paper Id-20105

Time: 3 Hours

Subject: Programming with C (Batch: 2005-2009)

Maximum Marks:75

Note: Q.1 is compulsory. Attempt one question from each unit.

Q1	Attempt all questions:-	(10x2.5=25)
	(a), Why C is know as middle level language?	
	(b) Explain bitwise operators.	
	(c) What is array of pointers?	
	(d) Explain ternary operator.	
	(e) What is sentinel controlled loop?	
	(f) Explain features of C language.	
	(g) Differentiate between structure and union.	
	(h) Explain two functions of process.h.	
	(i) Give the precedence of various operators in C.	
	(i) What is a macro?	
	0) What is a macro.	
	UNIT-I	
Q2	(a) Explain primary data type in C language. Explain the use of comm	a operator with
	éxample.	(3+3)
	(b) Explain exit controlled loop & entry controlled loop with example. V	
	to print Fibonacci series, up to 10 terms.	(3+3.5)
	OR	
Q3	(a) Explain tokens of C language briefly. Explain with example const and	d volatile. (3+3)
	(b) Explain the use of break and continue statement by giving ex	
	program to print sum of sin(x) series=x-x3/31+x5/5!-x7/7!upto	
	· · · · · · · · · · · · · · · · · · ·	
	UNIT-II	
Q4	(a) What are various storage classes, illustrate their usage and scope.	(6)
	(b) Write a program using for loop, for multiplication of two matrices. Ex	plain the use of
	malloc and calloc functions and also give their syntax.	(3+3.5)
	OR	
Q5	(a) Discuss features of 'call' by value' and 'call by reference'.	(6)
	(b) What is recursion? Mention its benefits. Write a program to fine	d factorial of a
	number using recursion.	(3+3.5)
	UNIT-III	•
Q6	(a) Explain the use of enumerated data type by giving example. De-	efine structure.
	Explain the concept of nested structure by giving example.	(3+3)
	(b) Write a program to determine division of students in a class	
	structures Make a structure having fields: name, age, roll no, sul	
	program should read record of 10 students and calculate their divisi	
	percentage.	(6.5)
05	OR	
Q7	(a) Explain any five file handling functions. Write a program that copies	
	one file (message.dat) to another file (new.dat).	(6)
	(b) What is bit field? Explain its usage. Explain pros and cons of us	
	example.	(3+35)
	UNIT-IV	
Q8	Give the general format for three functions for each header file:-	(12.5)
20	(a) string.h (b) maths.h (c) ctype.h (d) conio.h (e) stdlib.h	(12.5)
-	(a) string.it (b) maths.it (c) ctype.it (d) conto.it (e) stdilo.it	
Q9	(a) Give the format and example the of following library functions:-	(6)
2	(i) Isalnum() (ii) fabs() (iii) log() (iv) fflush() (v) getche()	(6)
	[] I Country I I I I I I I I I	

advantage of library function?

(b) What is meant by library in context with programming language and what is the