DECEMBER-2006

Subject: Programming with C Maximum Marks:75 de:BCA105 . is compulsory. Attempt any four questions selecting one questions from each unit. (10x2.5

Explain the following in brief: -

(a) State some of the features of 'C' language.

(b) Why 'C' language is known as 'mid-level language'?

(c) What is a syntax error? How do we detect them?

(d) How 'switch' statement works? ~

(e) What is the purpose of 'union' in 'C' language? ~

(f) What do you understand by 'compiled code'?

(g) List the differences between 'pointer to array' and 'array of pointers.

(h) What do you mean by operators "#" & "# #"?

(i) List the differences between 'Structures' and 'Union'.

(j) List '2' functions of 'math.h' and 'string.h' header file. UNIT-I

(a) Explain the relational and logical operators with the help of examples.

(b) Write a program to find the maximum among '5' number. The program should use (

(a) Explain the functioning of 'break', 'continue' and 'exit' function with examples.

(b) Write a program to reverse a string.

UNIT-II

(a) Discuss the features and working of 'call by value' and 'call by reference'. Also give

(b) Write a program to multiply two matrices of order (n x n) with dynamic memory allocation technique.

(a) Write the output of following, if i = 5 for each case,

- (i) i = (i++) * (i++)
- (ii) i = (++i) * (i++)

(b) List the scope of automatic, external static and registers in detail.

UNIT-III

(a) What do you mean by bit-wise operations. Explain about some bit-wise operators. Also 6

(b) Write a program to find the size of 'Union' function if 'Union' contain the following data types:

char name [20];

int number;

float decimal;

(a) Explain about some file handling functions in detail. 2.7

(b) Write a program to transfer each line of first file to second file.

UNIT-IV

(a) What are the differences between library file and header file? Q.8

(b) List '5' functions of each header file.

- (i) stdio.h
- (ii) string.h

abort, -exit, -cexit, -c-exit, exit

(a) What do you understand by function prototype, formal arguments and actual arguments? 0.9

(b) List '5' functions for each header file.

(i) conio.h