

PROGRAMMING IN 'C' LANGUAGE

2012 - SUPPLE

Note : Attempt any two parts from each question. Use TC code and diagram to justify your answer. All questions carry equal marks.

UNIT - 1

1. (a) Explain the different types of operators used in 'C' language.
- (b) Write the differences between while and do..... while loop with example.
- (c) Write a program in 'C' to find the sum of 1 to n numbers.

UNIT - 2

2. (a) What is prototyping ? Why is it necessary ?
- (b) Distinguish between the getchar and scanf function with example.
- (c) Write a program in 'C' to add two n x m matrix.

UNIT - 3

3. (a) What is meant by the following terms :
(i) Nested structure (ii) Array of structure
- (b) How does a structure differ from an array ?
- (c) Explain, when do we use the following :
(i) Unions (ii) The size - of operators

UNIT - 4

4. (a) What is pointer ? Describe the typical application of pointers in developing programs.
- (b) Explain the following terms :
(i) Calloc (ii) Malloc (iii) Realloc (iv) Free
- (c) What is dynamic array ? How is it created ? Give a suitable example of use of dynamic array.

UNIT - 5

5. (a) What is file ? How does an append mode differ from a write mode ?
- (b) Write a program in 'C' language to copy the contents of one file into another.
- (c) Describe the following functions :
(i) rewind (ii) ftell (iii) fseek