

V.R.SIDDHARTHA ENGINEERING COLLEGE

DEPARTMENT OF COMPUTER APPLICATIONS  
FIRST SEMESTER  
MODEL QUESTION PAPER

INTRODUCTORY PROGRAMMING (2010-11)  
MCA 1001

Time: 3hrs

Max Marks: 60 M

**PART-A is Compulsory:**

**Answer one question from each unit of PART- B:**

PART-A

8 X 1 = 8M

- What is C Preprocessor?
- State the purpose of header files in C.
- Distinguish between actual and formal arguments.
- What is Recursion?
- Uses of Pointer.
- Advantages of Dynamic Memory Allocation.
- What is Structure? How it differs from a Union?
- Explain the general format of fseek function.

PART-B

4 x 13 = 52M

UNIT-I

- (a) Explain different control statements in C. (8M)  
(b) Write a C program to generate prime numbers in the range a to b. (5M)

(or)

- (a) Write a 'C' program to find the sum of individual digits of a positive integer. (5M)  
(b) Explain about Arithmetic, Relational and Logical Operators, Increment and Decrement Operators. (8M)

UNIT-II

- (a) Write in detail about one dimensional and two dimensional arrays. (8M)  
(b) Write a C program to find the occurrences of a given character in a string. (5M)

(or)

- (a) Explain about Call by Value and Call by Reference. (6M)  
(b) Explain in detail about Storage Classes. (7M)

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UNIT-III

5. (a) Distinguish between array of pointers and pointer to array with examples. (7M)  
(b) Write a C program to find factorial of given number using pointer to function. (6M)

(or)

6. (a) Write a 'C' program to arrange the given names in alphabetical order using Pointers. (7M)  
(b) How to use pointers as arguments in a function? Explain with an example. (6M)

UNIT-IV

7. (a) Explain about Array of Structures along with an example. (7M)  
(b) Write a C program to illustrate the concept of structure within structure. (6M)

(or)

8. (a) Write a 'C' program that takes the contents of text file and copies them into another text file, character by character. (6M)  
(b) Explain in detail about Random Access Files. (7M)

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J. L. 12/1/11

( J. HARI KRISHNA )

K. Anupreddy 12/1/11

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