

# 'C' PROGRAMMING-II

Time Allowed : 3 Hours

Maximum Marks : 80

**Note :** Attempt five questions in all, selecting **one** question from each unit in addition to compulsory **Question No. 1**. All questions carry equal marks.

## Compulsory Question

1. (a) Explain `strrev( )` function and its uses. 3
- (b) What is nested structure ? Describe with one example. 3
- (c) Write advantages of pointers. 3
- (d) What is the syntax and purpose of `# define` directive ? 3
- (e) How memory is allocated dynamically of `# define` directive ? 3
- (f) How memory is allocated dynamically using `calloc( )` function ? 2
- (g) Write a short note on enum datatype ? 2

## UNIT-I

2. (a) Explain formatted and unformatted Input/

Output functions available in C language for storing data type. 8

- (b) Write a program to count the number of characters in a string without using string handling function. 8

3. Differentiate the following :

- (a) String constant and string variable 8  
(b) Structure and union data type. 8

### UNIT-II

4. Explain the following with suitable example :

- (a) Pointer to pointer 6  
(b) Pointer to function 6  
(c) NULL pointer. 4

5. (a) What are the uses of pointers in passing parameters to function? 8  
(b) Write a program to accept a linear array and display using pointer. 8

### UNIT-III

6. Differentiate the following functions :

- (a) Sscanf() and fscanf() 8  
(b) fseek() and ftell() 8

7. Explain :

- (a) Errors in File Handling 8  
(b) File access methods. 8

### UNIT-IV

8. (a) Explain with example the features of a C preprocessor. 8  
(b) Describe in MACRO with arguments. 8

9. Explain the following :

(a) # clif

(b) # undef

(c) # include

(d) # define

4×4