

- b. Explain the use of following functions with example :
 i) getchar() ii) gets() iii) putchar() iv) puts(). (08 Marks)
- c. What are three important elements of user defined functions? Explain each with syntax and example. (06 Marks)

OR

- 6 a. Write a C program to perform addition of two matrices. (08 Marks)
- b. Explain the use of strcmp() and strcat() functions with example and write a C program to count number of a's in a given string. (06 Marks)
- c. Write a program to sort the elements of an array by passing the array to a function called as sort(). (06 Marks)

Module-4

- 7 a. What is Structure? Define a structure type employee that contain Ename, Eid, and salary using this structure, write a C program to Read this information for one employee from the keyboard and print the same. (08 Marks)
- b. Explain Defining, opening and closing of a file with example. (06 Marks)
- c. Explain array of structure and nested structure with example. (06 Marks)

OR

- 8 a. Write programming using structure to accept the rollno, name and marks obtained in 3 tests of three students and display name, rollno and marks in 3 subjects and average. (08 Marks)
- b. Explain File I/O operations and write a program to read data from the keyboard and write it to a file named as 'Input' then read the data from 'Input' file and display it on to the screen. (12 Marks)

Module-5

- 9 a. What is Pointer? Explain how pointer variable is declared and initialized. (05 Marks)
- b. What are primitive and Non-primitive Data structure? Explain. (07 Marks)
- c. Write a program using pointer to compute the sum of all elements stored in an array. (08 Marks)

OR

- 10 Write a short notes on :
 a. Pointer to pointer (04 Marks)
 b. Stack (04 Marks)
 c. Queue (04 Marks)
 d. Dynamic memory management (04 Marks)
 e. Preprocessor directives. (04 Marks)

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