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## Code No: 861AC

Note: This question paper contains two parts A and B.
Part A is compulsory which carries 25 marks. Answer all questions in Part A. Part B consists of 5 Units. Answer any one full question from each unit. Each question carries 10 marks and may have $\mathrm{a}, \mathrm{b}, \mathrm{c}$ as sub questions.

PART - A

$$
5 \times 5 \text { Marks }=25
$$

1.a) What are the different data types available in ' C '?
b) Differentiate Break and Continue statement. Give examples.
c) What is dynamic memory allocation? What are the various dynamic memory allocation functions?
d) Compare arrays and structures.
e) What are the applications of stack?

## PART - B

2.a) What are the components of the computer systems?
b) What is Flowchart? What is the need of Flowchart symbols?
3.a) What are Operators? Mention their types in C.
b) What do you mean by conditional or ternary operator? Explain.
4. List out the Conditional and Control statements in C and explain with examples.

## OR

5.a) What is Recursion? List out merits and demerits.
b) Explain the following:
i) Actual and formal arguments
ii) Global and local variables
6. How arrays are passed to function? Explain with example.

OR
7. Write a C program to multiply two matrices using functions.
8.a) Define self-referential structure with example.
b) What is an array of structure and give example.

## OR

9. Explain about copying and comparing structure variables with example program. [10]
10. Explain the operations and the implementation of Stack using Linked list.

## OR

11. Sort the following elements using selection sort: 45, 8, 69, 75,14,138, 92,53, 13, 158. [10]
