PART - A   3 x 10 = 30

Instructions : (1) Answer **all** questions.

(2) Each question carries **three** marks.

(3) Answers should be brief and straight to the point and shall not exceed five simple sentences.

1. List data types in C.

2. What is the purpose of printf() and scanf() functions in C?

3. Write the synta for if-else.

4. What are the differences between break and continue statements?

5. What is the differences between a simple variable and array?

6. What is a string? How to declare and initialize a string?

7. Define function? Write any three uses of function.

8. What is a pointer? How to declare pointer in C?

9. How does a structure differ from an array?

10. Define structure variable with an example.

<div align="center">**PART - B**</div> 10x 5 = 50

Instructions : (1) Answer any **five** questions.

(2) Each question carries **ten** marks.

(3) Answers should be comprehensive and the criteria for valuation is the content but not the length of the answer.

11. a) Differentiate between pre-increment and post-increment operators with examples.

b) Define UNION. Explain how to initialize and access union members.

12. Explain in what way does a SWITCH statement differs from an IF statement.

13. Explain the working of nested for loop with an example.

14. Write a C program to find the sum of two matrices.

15. a) Explain the different ways of reading a string.

b) Write a C program to count the number of alphabetic characters in a given string.

16. What is the difference between 'Call by value' and 'Call by reference'? Explain with an example.

17. What is the relationship between Array and Pointer in C?

18. Explain Array of Structure with an example.

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