



- Notes :
1. All questions are compulsory and carry equal marks.
  2. Draw neat and labelled diagram and use supporting data wherever necessary.
  3. Avoid vogue answers and write specific answer related to questions.

1. Either :

- a) What is variable? How to declare variable in C? Explain. **8**
- b) Explain basic structure of 'C' program. **8**

**OR**

- c) Write a 'C' program to swap two variables values. **8**
- d) What is Constant? Explain real constants and string constants with suitable example. **8**

2. Either :

- a) Write a 'C' program which accept selling price and purchasing price of an item. Determine seller made profit or loss also point them. **8**
- b) Explain if—else statement along with syntax and example. **8**

**OR**

- c) Write a 'C' program which accept marks of three subjects and calculate total and average of as student. **8**
- d) Explain following. **8**
  - i) gets()
  - ii) puts()functions along with example.

3. Either :

- a) Differentiate between while and do--while loop. **8**
- b) Write a program in 'C' to find factorial of given number. **8**

**OR**

- c) Write a 'C' program for following output **8**

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

d) What is Nested Loop? Give syntax of nested for loop with example. 8

4. Either :

a) Explain one-Dimensional Array. How to declare one Dimensional array in 'C'? Explain. 8

b) Write a 'C' program to sort an array using bubble sort method. 8

**OR**

c) Write a 'C' program to perform addition of two matrices. 8

d) What is string? How to declare character array in 'C' ? Explain. 8

5. Solve all the questions.

a) Explain variable declaration in 'C'. 4

b) Explain syntax of switch - - case statement. 4

c) Explain use of break and continue statement. 4

d) Explain initialization of one Dimensional Array with suitable example. 4

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