

55341



I SEMESTER B.Sc. EXAMINATION – MARCH/APRIL 2022  
SCHEME: SEMESTER- CBCS  
COMPUTER SCIENCE  
COMPUTER CONCEPTS AND 'C' PROGRAMMING

017

Time: 03 Hours

Max Marks: 80

Instruction: Answer Part A and Part B

PART - A

Answer any EIGHT questions.

2x8=16

1. Differentiate compiler and interpreter.
2. List any four system softwares.
3. Mention the features of an algorithm.
4. Write the syntax of conditional operator. Give example.
5. How do you initialize one-dimensional array? Give example.
6. Write the syntax of printf( ) and scanf( ) statements.
7. How do you initialize a string variable?
8. Write the need of a function in a program.
9. How do you access the member of a structure?
10. Write any two advantages of pointers.
11. Differentiate structures and unions.
12. What is a file? what is the need of using a file?

PART - B

Answer any TWO questions from each main.

16x4=64

13. a) Discuss the classification of computers based on size.  
b) Explain the program development life cycle.  
c) With an example explain the structure of 'C' program.
14. a) Discuss any three types of operators supported by 'C' with example.  
b) Explain If - else and Nested if statement with an example.  
c1) Write a 'C' Program to sort given 'n' numbers using Bubble-sort. 5  
c2) Differentiate While-loop and Do-while loop. 3

PTO



15. a) Explain any four string handling functions with an example for each.
- b1) Explain functions with no arguments and with no return values with an example. 5
- b2) Brief on nesting of functions. 3
- c1) How array of structure is declared? Explain with an example. 4
- c2) Briefly explain storage classes. 4
16. a1) Differentiate call-by-value and call-by-reference. 4
- a2) How to access the members of union? Give an example. 4
- b1) Explain the concept of array of pointers with an example. 5
- b2) Brief on pointer to pointer. 3
- c1) Explain different modes of opening a file. 4
- c2) Explain the following with an example. 4
- a) fseek()      b) ftell()

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