

61125

**First Semester B.A./B.Sc. Degree Examination,  
August/September 2021**

(CBCS Scheme)

**Computer Science**

**Paper I – PROGRAMMING CONCEPTS USING C**

Time : 3 Hours]

[Max. Marks : 70

Instructions to Candidates : Answer all Sections.

SECTION – A

I. Answer any **TEN** of the following. Each question carries **2** marks: **(10 × 2 = 20)**

1. Write any 4 features of C.
2. What is a token? Give an example.
3. What is algorithm and flow chart?
4. Differentiate between break and continue.
5. What is function? Mention any two advantages.
6. What is an array? Give the syntax.
7. What is the difference between character and string?
8. What is typedef? Give an example.
9. What is dynamic memory allocation? Mention two allocation functions.
10. What is pointer? How is a pointer declared?
11. What is file? How to declare a file?
12. What is preprocessor directive? Give an example.

## SECTION - B

II. Answer any **FIVE** of the following. Each question carries **10** marks: **(5 × 10 = 50)**

13. (a) What is software? Explain classification of software. (5)  
(b) Write an algorithm and draw a flow chart to check given number is odd or even. (5)
14. (a) Explain the structure of C program. (5)  
(b) Explain formatted output statement with examples. (5)
15. (a) Explain switch case statements with syntax and example. (5)  
(b) Explain while statement with an example. (5)
16. (a) What is recursion? Write a C program to find factorial of a number using recursion. (5)  
(b) Explain any five string handling functions. (5)
17. (a) Write a C program to arrange the given set of numbers in ascending order. (5)  
(b) Explain storage classes with example. (5)
18. (a) How does structure differ from union? Explain. (5)  
(b) What are the advantages of pointer? (5)
19. (a) Explain call by value and call by reference method with example. (5)  
(b) Explain any five file handling functions. (5)
20. (a) What are macros? Explain the types of macros. (5)  
(b) Write a note on command line arguments. (5)