

61125

**First Semester B.Sc. Degree Examination,  
November/December 2019**

*(CBCS Scheme – Freshers & Repeaters) (2018-19 Onwards)*

**Computer Science**

**Paper I - PROGRAMMING CONCEPTS USING C**

Time : 3 Hours]

[Max. Marks : 70

Instructions to Candidates : Answer ALL the Sections.

SECTION – A

Answer any **TEN** questions. Each question carries **2** marks : **(10 × 2 = 20)**

1. What is an algorithm?
2. Write any two features of C.
3. What is ternary operators? Give an example.
4. Differentiate between / and % operators.
5. What is a function prototyping?
6. What is two-dimensional array? Give example.
7. What is a string? How to initialize string?
8. What is a union? Give an example.
9. What is an enum? Give an example.
10. What are the advantages of pointers?
11. Explain fwrite ( ) function with example.
12. What is a user defined header files?



**61125**

SECTION - B

Answer any **FIVE** questions. Each question carries **10** marks : (5 × 10 = 50)

13. (a) Write a note on classification of softwares.  
(b) Draw a flowchart for find the roots of a quadratic equation. (5 + 5)
14. (a) What is type conversion? Explain its types with an example.  
(b) Explain formatted I/O functions with an example. (5 + 5)
15. (a) Explain nested if statement with syntax and example.  
(b) Explain while and do..while loop with syntax and example. (5 + 5)
16. (a) Explain recursive function with example.  
(b) Write a C program to arrange the given set of numbers in ascending and descending order. (5 + 5)
17. (a) Explain any five string handling functions with an example.  
(b) Write a note on storage classes. (5 + 5)
18. (a) Explain nested structure with syntax and example.  
(b) Explain call by value and call by reference with an example. (5 + 5)
19. (a) Write a note on memory allocation functions.  
(b) What is a file? Write a note on various file modes. (5 + 5)
20. (a) Explain any two macro substitution directives with an example.  
(b) Write a note on command line arguments. (5 + 5)

