



K21U 3459

Reg. No. : .....

Name : .....

**II Semester B.Sc. Degree (CBCSS – OBE – Reg./Sup./Imp.)**  
**Examination, April 2021**  
**(2019 Admission Onwards)**  
**CORE COURSE IN COMPUTER SCIENCE**  
**2B02CSC : Advanced C Programming**

Time : 3 Hours

Max. Marks : 40

**PART – A**  
**(Short Answer)**

Answer **all** questions.

**(6×1=6)**

1. What do you mean by functions ?
2. Explain how to initialize a string variable.
3. Explain declaration of pointer variables.
4. Write the importance of *realloc()* statement.
5. What do you mean by a macro ?
6. Write short note on *ftell()* function.

**PART – B**  
**(Short Essay)**

Answer **any 6** questions.

**(6×2=12)**

7. What are the different parts in a function header ?
8. Write short note on automatic variables.
9. How to access a one dimensional array using pointers ?
10. What are the arithmetic operators that are permitted on pointers ?

P.T.O.



11. What is nesting of structures in C ? Explain with example.
12. How to declare an array of structures ? Explain with an example.
13. Write short note on *putw()* and *getw()* function.
14. How to pass arguments to a macro in C ?

PART – C  
(Essay)

Answer **any 4** questions.

(4×3=12)

15. Explain any three string handling functions with example.
16. Explain the need for user defined functions.
17. What is a pointer ? Demonstrate its use with an example.
18. What do you mean by a structure ? How it is initialized ?
19. Write a C program to count number of characters, words and lines in a file.
20. What are the different file functions helpful in managing random access files ?

PART – D  
(Long Essay)

Answer **any 2** questions.

(2×5=10)

21. Explain different categories of user defined functions in C.
  22. Write a user defined function to reverse a string.
  23. What do you mean by dynamic memory allocation ? Explain the library functions used for it.
  24. Write a C program to merge two files.
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