



**K22U 1283**

Reg. No. : .....

Name : .....

**II Semester B.Sc. Degree (C.B.C.S.S. – O.B.E. – Regular/Supplementary/  
Improvement) Examination, April 2022  
(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.

1. Write a function that inputs one character alone from standard input.
2. Which function is used to close a file ?
3. What is a structure ?
4. Write the built-in function to reverse a string.
5. What is a pointer ?
6. Define a string.

**(6×1=6)**

**PART – B**

Short Essay. Answer **any six** questions.

7. Write the syntax of `fprintf()` function. What is it meant for ?
8. Write the syntax for structure declaration.
9. Mention two ways of printing strings.

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10. Give the difference between structure and union.
11. What is scale factor ?
12. Using user-defined function with arguments and return value, check whether a number is odd/even.
13. How can you compare two pointers ?
14. Compare macros with functions. (6×2=12)

PART – C

Essay. Answer **any four** questions.

15. Explain two ways of reading a line of text.
16. Explain the relationship between pointer and array.
17. Explain dynamic memory allocation in C.
18. Write a program to swap two numbers by passing them as arguments to a function.
19. Explain command line arguments with an example program.
20. Explain getc(), getw(), putc() and putw() functions. (4×3=12)

PART – D

Long Essay. Answer **any two** questions.

21. Explain the storage classes in C. Also define the scope and lifetime of each.
  22. Write a program to demonstrate an array of pointers.
  23. Explain the concept of array within a structure with a suitable example program.
  24. Write a program to create two file and to combine the contents of the two files on to a third file. (2×5=10)
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