



Reg. No. : .....

Name : .....

**II Semester B.Sc. Degree (CBCSS – Supplementary/Improvement)**  
**Examination, April 2020**  
**CORE COURSE IN COMPUTER SCIENCE**  
**2B02 CSC : Advanced Programming In C**  
**(2014-2018 Admissions)**

Time : 3 Hours

Max. Marks : 40

**SECTION – A**

1. One word answer.

**(8×0.5=4)**

- \_\_\_\_\_ keyword is used to define a structure.
- Operator used to get address of a variable is \_\_\_\_\_
- The array name itself is a pointer to \_\_\_\_\_
- By default a function return \_\_\_\_\_
- The void keyword return zero (True/False).
- Is it possible to call a library function recursively ?
- In long K[4]; the total memory occupied by the array is \_\_\_\_\_
- The statement FILE \*p declares file pointer (True/False).

**SECTION – B**Write short notes on **any seven** of the following questions.**(7×2=14)**

- What is a use of main() function in C ?
- State difference between structure and union.
- How an array can be used to store a string ?
- What is the difference between end of file and end of strings ?



6. What is meant by storage class of variables ?
7. Differentiate between call by value and call by reference.
8. What is void pointer ?
9. What are multi-dimensional arrays ?
10. Why addition of two pointers is impossible ?
11. What is the use of fseek() ? Write its syntax.

SECTION – C

Write short notes on **any four** of the following questions.

(4×3=12)

12. Explain different string manipulation function.
13. Write a program to swap two variables using function.
14. Explain arrays of structures.
15. How to perform pointer arithmetic ?
16. Discuss typedef statement.
17. What are the different types of pre-processor statements ?

SECTION – D

Write short notes on **any two** of the following questions.

(2×5=10)

18. How we can open and close a file ? Explain different functions for file operation.
  19. How union is defined ? How to initialize and access the members of a union ?
  20. Write a program to sort an array of integers using pointers.
  21. Write a program to calculate the sum of digits of a number. Use a function to return the sum.
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