



K22U 1050

Reg. No. :

Name :

II Semester B.Sc. Degree (C.B.C.S.S. – Supplementary)

Examination, April 2022

(2016-2018 Admissions)

CORE COURSE IN COMPUTER SCIENCE

2B02CSC : Advanced Programming in C

Time : 3 Hours

Max. Marks : 40

SECTION – A

1. **One** word answer : **(8×0.5=4)**
- a) Maximum number of elements in $x[4][3]$ is
 - b) `main()` is an example of _____ function.
 - c) A variable which is declared in static storage class has initial value
 - d) A function called by itself is called
 - e) _____ mode is used for opening a file for updation.
 - f) Reallocates modifies the size of previously allocated size (TRUE/FALSE)
 - g) The pointer that is declared as _____ can't be de-referenced.
 - h) An array can be initialized either at compile time or at

SECTION – B

Write short notes on **any seven** of the following questions : **(7×2=14)**

- 2. What are actual parameters and formal parameters ?
- 3. What are the drawbacks of a linear array ?
- 4. What is the scope and life time of a variable in a function ?
- 5. What do you mean by command line arguments ?

P.T.O.



6. What is pointer value and address ?
7. How strcmp() works ?
8. How to access a variable through pointers ?
9. What is array of structures ?
10. How to find the size of a structure ?
11. What is the significance of EOF ?

SECTION – C

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

(4×3=12)

12. Write a program to check whether the given string is palindrome or not.
13. What are the different types of user defined functions ?
14. Define structure with example.
15. Explain different storage classes.
16. Define macros. Write a simple macro.
17. What is pointer to pointers ? Give an example.

SECTION – D

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

(2×5=10)

18. How a function is defined ? What are the different parameter passing techniques ?
How function is different from recursion ?
 19. How arrays of structures and arrays within structures are handled in C ? Explain with suitable examples.
 20. a) What is meant by random access to a file ? Explain with example.
b) What is dynamic memory allocation ?
 21. Explain the effect of ++ and – operator with pointer of all data types.
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