K20U 0459

Reg. No. : .....

Name : .....

II Semester B.Sc. Degree CBCSS(OBE) – Regular Examination, April 2020
(2019 Admission)
Core Course in Computer Science
2 B02 CSC : ADVANCED C PROGRAMMING

Time : 3 Hours Max. Marks : 40

PART – A
(Short Answer)

Answer **all** questions. (6x1=6)

1. Write a short note on recursion.
2. What is a string ?
3. How to declare a pointer variable ?
4. What is the role of *free()* function in dynamic memory allocation ?
5. What is the significance of EOF ?
6. What do you mean by pre-processor directive ?

PART – B
(Short Essay)

Answer **any 6** questions. (6x2=12)

7. Explain the need for user defined functions in C ?
8. Write short note on *strcpy()* and *strrev()*.
9. Explain how to access members of a structure using its pointer ?
10. What do you mean by function pointer ? Write its use.
11. What are the rules for initializing structures in C ?

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12. Distinguish between *malloc()* and *calloc()* functions.

13. Explain the general format of *fseek()* function.

14. What is a macro ? How to undefine a macro in C ?

PART – C
(Essay)

Answer **any 4** questions. **(4x3=12)**

15. Explain actual and formal parameters of functions.

16. Write a recursive function to find factorial of a number.

17. What is union ? Illustrate the use of union with an example C program.

18. Write a function using a pointer parameter that reverses the elements of a given array.

19. Write a C program to copy the content of one file to another.

20. Write a short note on file inclusion.

PART – D
(Long Essay)

Answer **any 2** questions. **(2x5=10)**

21. Write short note on storage classes.

22. What is pointer ? What are the benefits of using pointers in C ?

23. Write a C program to add two complex numbers using structure.

24. Explain different categories of preprocessor directives in C.

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