



K22I 0001

Reg. No. :

Name :

**II Semester Integrated M.Sc. (Regular) Examination, January 2022
(2020 Admission)
COMPUTER SCIENCE
2B02ICSC : Advanced C Programming**

Time : 3 Hours

Max. Marks : 40

**PART – A
(Short Answer)**

Answer **all** questions :

(6×1=6)

1. What is user-defined function ?
2. How do you create a union in C ?
3. What is the meaning of auto keyword ?
4. What is malloc in C ?
5. What is the size of a void pointer in C ?
6. How do you access the value pointed by a pointer ?

**PART – B
(Short Essay)**

Answer **any 6** questions :

(6×2=12)

7. What is macro substitution in C ?
8. What is the difference between extern and global ?
9. What is file *fp in C ?
10. What is structure initialization in C ?
11. Why macro is faster than function ?

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12. What is the advantage of function pointer in C ?
13. How errors are handled during file operations ?
14. What is call by reference how it is different from call by value ?

PART – C
(Essay)

Answer **any 4** questions : **(4×3=12)**

15. What are the advantages of user defined functions in C ?
16. How do you open a file in C ?
17. Compare structure and union in C.
18. How memory is allocated for structure ? What is the size of structure ?
19. How do you declare an array of structures ?
20. What is pointer increment and scale factor in C ?

PART – D
(Long Essay)

Answer **any 2** questions : **(2×5=10)**

21. Explain scope and lifetime of variables in C language with example.
 22. What is macro – explain with example in C. What are the advantages and disadvantages of using macro in C ?
 23. What are the different modes of file operations ? Explain.
 24. Why do we use pointers to structures ? Explain with suitable program.
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