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BACHELOR OF COMPUTER APPLICATIONS (CBCS - 2018 COURSE)

B.C.A. Sem-II : WINTER- 2022
SUBJECT : C PROGRAMMING-II

Day : Monday

Time : 02:00 PM-05:00 PM

Date : 12/12/2022

W-18761-2022

Max. Marks : 60

N.B.

- 1) Q. No. 4 is **COMPULSORY**.
 - 2) Answers any **TWO** questions from Q. No. 1, 2, 3 from Section – I.
 - 3) Answers any **TWO** questions from Q. No. 5, 6, 7 from Section – II.
 - 4) Figure to the right indicate **FULL** marks
 - 5) Answers to both sections should be written in **SAME** answer book.
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SECTION - I

- Q.1** What is one dimensional array? Explain its operations like insertion, deletion and traversal in detail. (12)
- Q.2** Define linked list. Explain in brief its advantages and types. (12)
- Q.3** Define Stack. List various operations performed on stack. Write a C code to implement Push and Pop operation. (12)
- Q.4** Write short notes on any **THREE** of the following: (12)
- a) Pre – conditions and post conditions
 - b) Breadth first traversal
 - c) Linear search
 - d) Two – dimensional array

SECTION - II

- Q.5** What is a file? Why do we need to store data in files? Write a C program to copy the contents of one file to another file and display both file contents on console. (12)
- Q.6** What is sorting? State different sorting techniques in detail. (12)
- Q.7** a) Define queue. Describe its applications and types in detail. (06)
- b) Explain binary tree and its properties in detail. (06)

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