

**BACHELOR OF SCIENCE (COMPUTER SCIENCE) (CBCS - 2018 COURSE)**  
**F.Y.B.Sc.(Computer Science) Sem-II : WINTER- 2022**  
**SUBJECT : PROGRAMMING IN C-II**

Day : Wednesday

Time : 02:00 PM-05:00 PM

Date : 7/12/2022

**W-20079-2022**

Max. Marks : 60

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**N.B.**

- 1) All questions are **COMPULSORY**.
  - 2) Figures to the right indicate **FULL** marks.
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**Q.1** Answer any **TWO** of the following: **(12)**

- a) Define Array. Describe different types of Array.
- b) Write a C program to accept 5 student records (roll, name, fees) and display their information.
- c) What is FILE? Explain various file opening modes.

**Q.2** Answer any **TWO** of the following: **(12)**

- a) Write a C program to count total number of vowels in your name.
- b) Differentiate between Structure and Union.
- c) Explain the concept of nested structures with suitable example.

**Q.3** Answer any **TWO** of the following: **(12)**

- a) Write a C program to read a text file and display its contents character by character.
- b) Write a C program to sort the array of integers in descending order.
- c) Differentiate between Array and Structure.

**Q.4** Answer any **THREE** of the following: **(12)**

- a) Define pointer to structure. Which operator is used to access the members of structure using pointer?
- b) Write a C program to find the sum of elements stored in 1 – D Array.
- c) Write a C program to swap contents of two variables using call by value.
- d) Write a note on functions in C.

**Q.5** Answer any **FOUR** of the following: **(12)**

- a) What is Pointer? Give syntax and example.
- b) Describe any 2 standard library string functions with usage and example.
- c) Give any 4 applications of Array.
- d) Write a C Program to make use of Pointer to print integer value.
- e) Explain in brief different types of files supported by C language.
- f) Write a C program to find square of a number using function.

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