

**SHRIMATHI DEVKUNVAR NANALAL BHATT VAISHNAV COLLEGE FOR WOMEN  
(AUTONOMOUS)**

**(Affiliated to the University of Madras and Re-accredited with 'A+' Grade by NAAC)  
Chromepet, Chennai — 600 044.**

**B.Sc. END SEMESTER EXAMINATIONS APRIL-2022**

**SEMESTER - VI**

**12UMACT6015 & UMA/CT/6015 - Programming Language C**

**Total Duration : 3 Hrs.**

**Total Marks : 60**

**Section A**

Answer any **SIX** questions ( $6 \times 5 = 30$  Marks)

1. Describe the fundamental data types in C.
2. Explain with example arithmetic, relational and logical operators.
3. Discuss about nested if structure.
4. Write the differences between While and Do while.
5. Explain recursion with example.
6. How do you declare and initialize two dimensional arrays?
7. Write a program to compare two strings.
8. Describe pointer with arrays concept.

**Section B**

Answer any **THREE** questions ( $3 \times 10 = 30$  Marks)

9. Explain in detail the library functions.
10. Discuss in detail about for loop with example.
11. Explain user defined function with suitable example.
12. Write a program to sort the array elements.
13. Explain call by value and call by reference with example.

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