

Only for 2021 to  
2023 AD  
admitted  
Regular  
Students

**TRIBHUVAN UNIVERSITY**  
**FACULTY OF MANAGEMENT**  
Office of the Dean  
**May 2024**

**Full Marks: 60**  
**Pass Marks: 30**  
**Time: 3 Hrs.**

**BIM / First Semester / IT 232: C Programming**

*Candidates are required to answer the questions in their own words as far as practicable*

**Group 'A'**

**Brief Answer Questions:**

**[10×1=10]**

1. Define Structured Programming.
2. What is a constraint?
3. List any two unformatted I/O functions.
4. What is the function of sizeof operator?
5. What is the purpose of the break statement in C programming?
6. Write the syntax of declaring Multidimensional integer array.
7. Define Nested function.
8. List any two limitation of a pointer.
9. List the differences between union and structure.
10. Write two advantages of using C macros.

**Group 'B'**

**Short Answer Questions: (Attempt any FIVE Questions)**

**[5×3=15]**

11. Define algorithm. List the differences between algorithm and pseudocode.
12. What is Escape sequence? Explain the function of any two escape sequence used in C.
13. Write a C program to illustrate the concept of nested loop.
14. Describe the use of the & and \* operators in C, and give an example of their use.
15. Write a program to create an array of structures and initialize its elements.
16. Write a program in C to show the uses of ternary operator.

**Group 'C'**

**Long answer questions: (Attempt any THREE Questions)**

**[3×5=15]**

17. Write a C program that takes two integer inputs from the user and prints whether the first input is greater than, less than or equal to the second input.
18. Write a program that takes a string input from the user and prints the number of vowels and consonants in the string.

19. What are the different modes of Graphics in C?
20. Write a program in C to read a file "Student.txt" and display Name, Age, Address of student enrolled in BIM.

**Group 'D'**

***Comprehensive Answer /Case/Situation Analysis Questions:***

**[2×10=20]**

21. Write a menu driven program in C which has following Options:
  - a. To Print multiplication table of 10
  - b. To print factorial of a number
  - c. To print sum of 3 numbers
  - d. Exit
  
22. Define variable and explain its type. Describe scope, visibility and lifetime of a variable.