FACULTY OF SCIENCE
BA / B.Sc. (CBCS) I - Semester Examination, December 2024

Subject: Computer Applications
Paper – I: Programming in 'C'

Time: 3 Hours   **Max. Marks: 80**

Part-A

Note: Answer any eight questions.   **(8x4 = 32 Marks)**

1. Write an algorithm to find greatest of three numbers.
2. Define a variable. Explain the rules to form a variable name.
3. Explain about compiler and interpreter.
4. Explain ternary operator with syntax and example.
5. Explain different formatted and Non-Formatted Input Statements.
6. Write a C-Program to check whether given number is palindrome or not.
7. Define a pointer. Explain the advantages of pointers.
8. Write a program to interchange two values using functions.
9. Explain call by value with an example program.
10. Explain about enumerated data type.
11. Explain different random access file functions.
12. Write a program to read student marks, calculate total and average using structures.

Part-B

Note: Answer all questions.   **(4x12 = 48 Marks)**

13. (a) Explain different types of operators supported by C-Language.
(OR)
    (b) Explain anatomy of a computer with neat diagram.

14. (a) Explain different types of loops supported by C-Language with syntax and example.
(OR)
    (b) Write a program to count the number of vowels, consonants, words in a given line of text.

15. (a) Explain different types of storage classes supported by C-language.
(OR)
    (b) Define Recursion? Write a program to find the factorial of a given number using recursion.

16. (a) Define structure? Explain how to declare a structure and access the members of a structure with syntax and example program?
(OR)
    (b) (i) Explain about remove() and rename() functions with examples.
       (ii) Write a program to copy one file into another file.

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