

FAR WESTERN UNIVERSITY
Semester End Examination-2081
Programming Fundamentals and C Programming (CSIT.115)

Faculty: Science and Technology (CSIT)

Level: Undergraduate

Semester: First

Full Marks: 100

Time: 3hrs.

*Candidates are required to give their answers in their own words as far as practicable.
The figures in the margin indicate full marks.*

Group – 'A'

Attempt all questions (Very short answer questions)

8×3 = 24

1. Define control structure. What are the various decision making statements available in C?
2. What is Pointer? What are the uses of Pointers?
3. Name different types of errors which can occur during the execution of a program? When a syntax error occurs?
4. Write down the difference between compiler and interpreter.
5. Write a program that inputs radius from the user and calculates area and circumference of a circle.
6. Write the features of c programming language.
7. Define dangling pointer variable.
8. What do you mean by the scope of the variable?

Group – 'B'

Attempt any five questions. (Short answer questions)

5×8=40

9. What do you mean by algorithm and flowchart? Explain with examples.
10. Differentiate between while and do-while loop. Write C program to perform various arithmetic operation on two operands.
11. What is operator? Describe different types of operators in C programming with suitable examples.
12. Describe the working of for loop and while loop with flowchart and examples.
13. Write C program to enter numbers until user press 0 and display sum and average of entered number.
14. Write C program to store n numbers in a list and enter a number. Check whether the entered number is found in list or not.

P.T.O.

Group – 'C'

Attempt any three questions. (Long answer questions)

3×12 = 36

15. Describe string. Explain different string manipulation function with examples.
16. Define structure. Explain nested structure with example. Create a structure named **book** with **name**, **author**, and **publisher** as its members. Write a program using this structure to read data of 50 books and display name of those books published by "XYX" publisher.
17. Explain components of functions. Write C program to display factorial of entered number by using recursion.
18. What are file opening modes? Explain them. Write a program to open a new file, read name, address and marks of n students from user and write to a file.
