25019761

QP CODE: 25019761

Reg No : .....

Name : .....

B.Sc DEGREE (CBCS)) REGULAR/ IMPROVEMENT/ REAPPEARANCE / MERCY CHANCE EXAMINATIONS, FEBRUARY 2025

Fourth Semester

B.Sc Electronics Model III

Core Course - EL4CRT10 - PROGRAMMING IN C

2017 Admission Onwards

B1D11574

Time: 3 Hours Max. Marks : 80

Part A

*Answer any **ten** questions.*

*Each question carries **2** marks.*

1. Explain what is a flowchart.
2. List two example functions each for input and output.
3. Explain the basic difference between the while and do- while loops.
4. Explain the syntax of for loop.
5. What is a nested loop?
6. What is an array? How does it differ from an ordinary variable?
7. Discuss two methods for string input.
8. What is a structure C Programming?
9. What is an union in C programming?
10. Explain the concept of pointers.
11. What is meant by scope of variable?
12. Explain realloc() function.

(10×2=20)

Part B

*Answer any **six** questions.*

*Each question carries **5** marks.*

13. Distinguish between long, short and unsigned declarations.

14. Explain the bitwise operators in C programming language.

15. Write a program to check the given number is odd or even

16. Compare break, continue and goto statements by bringing out the differences and similarities.

17. How to declare and initialize a two-dimensional array?

18. Explain the syntax of function

19. Explain the useage of pointer to structure variables in detail.

20. Write a C program to swap two numbers using call by reference method.

21. Explain different preprocessor directives in C.

(6×5=30)

Part C

*Answer any **two** questions.*

*Each question carries **15** marks.*

22. Draw the flow chart for finding the roots in three cases of a quadratic equation.

23. Explain the syntax of switch statement. Write a program to make a simple calculator program using switch statement

24. Write a program that uses a function to find GCD of two numbers n and m. Also draw the flowchart.

25. (a).Explain array of structures. (b) Write a program using a structure to store the name, department, employee number and salary of an employee in a company. Illustrate how salary can be displayed as using using a function.

(2×15=30)