



QP CODE: 20100932



20100932

Reg No :

Name :

B.Sc DEGREE (CBCS) EXAMINATION, MARCH 2020

Fourth Semester

B.Sc Electronics Model III

Core Course - EL4CRT10 - PROGRAMMING IN C

2017 Admission onwards

CC5D6E89

Time: 3 Hours

Marks: 80

Part A

Answer any ten questions.

Each question carries 2 marks.

1. What is meant by algorithm.
2. Explain what is meant by keywords.
3. Explain the syntax of switch statement.
4. Explain the syntax of for loop.
5. Explain the use of a break statement with the help of an example.
6. How an array may created?
7. What defines the scope of a function?
8. How to declare a structure?
9. Explain how to pass structure to a function?
10. How to declare and initialize pointer variables?
11. What is register variable? Explain with an example.
12. Explain free() function.

(10×2=20)

Part B

Answer any six questions.

Each question carries 5 marks.

13. Explain derived datatypes with examples.
14. What is meant by assignment operator. Explain how a compound statement get executed.





15. Explain if-else statement. Write a program to find largest of two numbers.
16. write a program to check the given number is Armstrong or not.
17. Write a program to find the length of the input string.
18. Explain the syntax of function.
19. Distinguish between structure and union.
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. Explain (a) Programming techniques (b) Branching and Looping programming logics.
23. Write a C program to generate the multiplication table of integers. Draw the flow chart.
24. What are multidimensional arrays? Write a program to find the sum of two matrices.
25. Write a C program to maintain a record of n student details using an array of structures with four fields (Roll number, Name, Marks, and Grade). Each field may be of an appropriate data type. Display the marks of the student when given the name as input.

(2×15=30)

