

2022

Time : 3 hours

Full Marks : 70

Candidates are required to give their answers in their own words as far as practicable.

The figures in the margin indicate full marks.

Answer from both the Section as directed.

Section – A

Answer any four questions of the following :

10×4 = 40

12
12
33

1. Explain basic data types available in C with the help of example. (8)
2. Write a program to find the sum of digits of an integer number entered by the user.
3. Discuss the various Operators available in C with the help of example. (8)
4. Explain with example relationship between single dimensional array and pointers.

5. Write a program in C to sort in ascending order integer elements of a one-dimensional array.

6. Write a program to create a file and display its contents. Assume suitable data.

7. Difference between structure and union with a suitable example.

8. Write a C programme to calculate electricity bill using if-else statements. Conditions.

* For first 50 units – Rs. 3.50/unit

* For next 100 units – Rs. 4.00/unit

* For next 100 units – Rs. 5.20/unit

* For units above 250 – Rs. 6.50/unit

* Additional charges of 100 Rs. is added as service charge in the final bill

Section – B

Answer all questions of the following : $3 \times 10 = 30$

1. Discuss any three String functions in C.

2. Define Recursion.

3. Explain the Structure of C Program.

4. What is call by value and call by Reference ?

5. ✓ Define Pointer with a suitable example (1)
6. ✓ What is the difference between pre increment and post increment operator with a suitable example? (2)
7. ✓ List various logical operators with symbol? (3)
8. ✓ What is nesting of loop? (2)
9. ✓ What is global variable? (1)
10. ✓ Write a program to swap two numbers without using third variable. (1)



++i
i++

·i++
p++

x++
p++

of f)

i++