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Reg. No.....

Name.....

B.Sc. DEGREE (C.B.C.S.S.) EXAMINATION, SEPTEMBER 2024

Sixth Semester

Choice Based Course—PROGRAMMING IN C

(For B.Sc. Mathematics Model-I)

[Prior to 2013 Admissions]

Time : Three Hours Maximum Weight : 25

Part A

Answer **all** *questions.*
Each buch of four question carries a weight 1.

I. 1 What you meant by Syntax rules ?

2 What is a String constant ?

3 How will you define a symbolic constant ?

4 Name *six* types of C tokens.

II. 5 Write True *or* False the following :

"When if statements are nested, the last else gets associated with the nearest if without an else".

6 What are input/output functions used in C-languages ?

7 What is meant by a null statement ?

8 A global variable is also known as ————————.

III. 9 What do you mean by a one dimensional array ?

10 Identify errors if any in the statement 'State float result [10] = 0 ;

11 An array of characters is called ————————.

12 How can you include a double quote in a string ?

IV. 13 What is meant by Library function ?

14 What is function of void qualifier ?

15 Define local variables in C.

16 What is the use of return statement in C language ?

(4 × 1 = 4)

Turn over

Part B

Answer any **five** *questions.*
Each question carries a weight of 1.

17. Describe the purpose of the qualifiers const and volatile.
18. What are trigraph characters ? How are they useful ?
19. Write the rules for naming variables.
20. What are the steps involved in looping statements ?
21. Explain with example "Initialization of Arrays".
22. Explain function declaration in C.
23. What is meant by recursion ? Give an example.
24. How will you perform arithmetic operations on characters ?

(5 × 1 = 5)

Part C

Answer any **four** *questions.*
Each question carries a weight of 2.

25. Write a program in C to find the average of n values.
26. Explain else if ladder statement with syntax and example.
27. Write a program to reverse the digits of a given number.
28. Differentiate between Library functions and user defined functions. Give example.
29. How will you define a non-integer function ? Explain.
30. Write a function that will generate and point the first n Fibonacci numbers.

(4 × 2 = 8)

Part D

Answer any **two** *questions.*
Each question carries a weight of 4.

31. Write a program to check whether a given number is prime or not.
32. Explain for loop in C language write a program to print the multiplication table from 1 × 1 to 12 × 10.
33. Explain the storage classes in detail.

(2 × 4 = 8)