2023/TDC(CBCS)/ODD/SEM/ STSHCC-502T/118

TDC (CBCS) Odd Semester Exam., 2023

STATISTICS

(Honours)

(5th Semester)

Course No.: STSHCC-502T

All the front and

(Statistical Computing using C/C++

Programming)

Full Marks: 50 Pass Marks: 20

Time: 3 hours

The figures in the margin indicate full marks for the questions

SECTION-A

Answer ten questions, selecting any two from each Unit: $2\times10=20$

UNIT—I

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- 1. Why and when do we use the #<include>
- 2. How can we declare a variable in C? Give examples.

(Turn Over)

3. What is the difference between main() and void main(void)?

SIATURES UNIT—II

- 4. What is the purpose of scanf and printf function?
- 5. What is meant by library function? How are library functions accessed? [solitaits to]
- 6. What is the output of the following program?

 main()

int x=5, y=10, z=10; x=y==z;

ingues in the; (x q. b.) drings fit marks for the questions.

UNIT-III

7. Define the terms 'entry-controlled loop' and 'exit-controlled loop'.

- 8. What is the general form of the 'if-else' statement? Give example.
- 9. Why are 'break' and 'continue' statements used in loops?

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- 10. What is a data structure? Why is an array called a data structure?
- Distinguish between one-dimensional array and two-dimensional array.
- 12. What is a string? How can we declare a string?

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- 13. Distinguish between user-defined functions and library functions.
- 14. Define recursion. Give example.
- 15. What is meant by function declaration? How can we declare a function?

SECTION—B

Answer five questions, selecting one from each
Unit:
6×5=30

UNIT—I

- **16.** (a) What are C tokens? Discuss in brief the various types of C tokens.
 - (b) Distinguish between 'initialization' and 'assignment of variables'.

24J/134

(Turn Over)

(Continued)

2

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17.	Discuss in brief the various data types in C.	23.	(a)	Describe the limitations of using scanf function for reading strings.
	to state a data at Innu Why is an array that a data at a constant		(b)	Write a C program to compute average of some selected numbers using array.
18.	Discuss in brief the different types of operators included in C. The discussion of the control o			Unit—V
19.	(a) Write a program in C to find the average of three numbers. Summer of the All W. 41	24	Dis	cuss briefly the different categories of
	(b) Determine the value of the following expressions, if a = 5, b = 10 and c = -6: 2	M	4	ction in C.
	(i) a==c b>a ano.1 (ii) a <b&a>c a massive de 101 d</b&a>	25.	(a)	What is a function prototype? How do function prototypes differ from traditional function declaration?
	and library functions III—TINU Let Define recursion. Give example.		(b)	Write a program to compute factorial of an integer using recursion.
20.	(a) Explain the else-if ladder statement with in C. statement with the classification of the control of the classification of the cl	301	•	
	(b) Discuss the syntactic rules associated with the use of switch statement.		•	***
21.	What is meant by looping? Discuss in brief the various loop control statements in C.		8	
	UNIT—IV			·
22.	(a) How can well declare; and initialize a .51 one-dimensional array?			*
1	(b) Write a program to compute the length of a given character; string.			2023/TDC(CBCS)/ODD/SI

24J—110/134