CENTRAL LIBRARY N.C.COLLEGE

2024/FYUG/EVEN/SEM/ CAIDC-151T/139

FYUG Even Semester Exam., 2024

COMPUTER APPLICATIONS

(2nd Semester)

Course No.: CAIDC-151T

(Programming Fundamentals with C)

Full Marks: 70
Pass Marks: 28

Time: 3 hours

The figures in the margin indicate full marks for the questions

SECTION-A

Answer any *twenty* of the following as directed: 1×20=20

- 1. What is computer program?
- 2. Write down the purposes of programming languages.
- 3. What is testing?
- 4. What is the meaning of 'warming message'?
- 5. Define the meanings of input and output.

(Turn Over)

(2)

6	What	do	VOII	mean	by good	programming?
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- 7. Write down the purpose of decision box in flowchart.
- 8. Define algorithm.
- 9. Who developed C programming language and in which year?
- 10. Why is C called middle level language?
- 11. What is variable in C?
- 12. Write down the purpose of main() function.
- 13. A C-statement must end with a ____.

 (Fill in the blank)
- 14. What is the meaning of ++ operator?
- 15. What is header file?
- 16. What do you mean by multiway decision-making statement?
- 17. What is break statement?
- 18. What is the purpose of else block?

19.	What is looping? ास्त्र कि कांग्या कर करने एक कि और	•
	What is branching statement?	
21.	What is array? In a money has a fill of me.	
22.	How is 1D array initialized?	-
23.	What do you mean by user-defined function?	
24.	Write down the purpose of return statement.	
25.	Define pointer.	

SECTION—B

Answer any five of the following questions: 2×5=10

- **26.** Write down the drawbacks of machine level language.
- 27. Write down the difference between compiler and interpreter.
- 28. What are the good qualities of algorithm?
- 29. Write down the steps to compile a C program.
- **30.** What are the different primary data types used in C language? Give example.

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31.	How are conditional operators used? Give a example.	
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32.	What is the difference between entry	
	controlled and exit controlled loop?	€.
	Write the syntax of switch statement. Give	
33.	_	
	example.	
	Sp. 194 Property Common Potencial Common defined	
34.	What is the difference between user-defined function and built-in function?	
	Muchou sud pand-ur initedout	\$ 17
25	Write down the advantages of pointer.	
30.	Willo down and day and position.	•
	SECTION—C	
Ans	wer any <i>five</i> of the following questions: 8×5=4	Ó
26	Explain different types of errors encountered	
30.	in language translation process.	• • •
	III language danisation process	
37.	Write short notes on the following: 2×4=	8
	(a) Source code	
	(b) Object code	
		•
	(c) Debugging code	,
	(d) Assembler	` -;.
	and the second of the second o	
38.	Draw a flowchart and write an algorithm to	
	compute the area of a circle.	

(Continued)

39.	(a)	Write down the brief history of C programming language.	3
	(b)	How are C programs compiled and executed? Explain with example.	5
40.	(a)	Explain C tokens with example.	4
	(b)	Write a C program to calculate the simple interest.	4
41.	(a)	Explain different operators used in C language.	5
	(b)	Explain the rules of identifiers.	3
42.	(a)	Write a C program to find the greatest number among the three given numbers.	5
	(b)	Briefly explain how nested if statement works.	3
43.	(a)	Write a C program to find the factorial of n.	5
	(b)	Explain the syntax of for loop.	3
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(6)

44.	Defi	2×4=8					
	(a)	Function prototype					
	(b)	Actual argument and formal argument					
	(c)	Function body	•				
	(d)	Function call					
45.	(a)	Write a C program to find sum elements in a given array.	of 6				
	(b)	Write down the advantages of function	. 2				