**CB** 60:40

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# BACHELOR OF COMPUTER APPLICATIONS (B.C.A.)

## **SPECIALIZATION IN CYBER SECURITY (CS)**

**EXAMINATION: MAY-2024** 

## **SEMESTER - I**

**Sub: C Programming** 

(BCA-141-18/BCA-141-20/BCA-CS-141-20/BCA23-101 / BCAC23-101)

Date	: 23/05/2024	Total Marks: 60	Time: 2.00 pm To 4.30 pm
	Instructions: 1. All questions are compulsor. 2. Bold figures to the right of e 3. Candidates are advised to at 4. Answers written illegibly are 5. Use of scientific calculators, 6. Draw neat and labelled diag	very question are the maximu ttempt questions in order. e likely to be marked zero. Log tables, Mollier Charts is	m marks for that question.
Q.1.	Fill in the blanks.		(5)
1.		nent used to send back any value to the calling function is	
	a) break	b) continue	
	c) exit	d) return	
2.	The range of char data type is	*	
	a) -128 to 127	b) 0 to 255	
	c) -32768 to 32767	d) None	
3.	How to refer an element in ith row jth column of a two dimensional array		
	a) x[i,j]	b) x[i][j]	•
	c) x[ij]	d) x[i]x[j]	
4.	An immediate exit from the loop can be achieved by astatement.		
	a) break	b)end	
	c) stop	d) finish	
5.	is valid C expression		
	a) int my_num = 100,000;	b) int my_nu	m = 100000;
	c) int my num = 1000;	d) int \$my_n	um = 10000;
Q.2.	State True/False		(5)
1.	n C, upper and lower cases letter are same.		
2.	strcpy (s1, s2) function copies s2 to s1.		
3.	In C language, an array starts from the position zero.		
4.	In switch statement, the default case is optional.		
5.	"%f" code can be used to read/print floating point values without exponent.		
Q.3.	Answer the following. (Solve any 5) (10)		
1.	What are keywords and identifiers?		
2.	What is meant by Recursive function?		
3.	What is file?		
4.	What is format specifier?		
5.	What is the purpose of adding co	omments in a program?	
6	What is union?		

### Q. 4. Answer the following in detail. (Solve any 6)

(30)

- 1. What is a function? Explain call by value and call by reference
- 2. Write a program to check if the person is greater than 18 display "he/she is eligible to vote" or "not eligible".
- 3. Define string. How string is declared and initialized? Explain any 4 string library functions with syntax and example
- 4. Explain the decision making statement in c with example programs.
- 5. What is a pointer? Explain how the pointer variable declared and initialized with example.
- 6. write a c program for largest of three numbers
- 7. What is algorithm? Draw flowchart to print average of 5 numbers

### Q. 5. Answer the following in detail. (Solve any 1)

**(10)** 

- 1. Explain the looping statement in c with example programs
- 2. What is an operator? List and explain various types of operators