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PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2024

(Fifth Semester)

Branch - MATHEMATICS

DISCIPLINE SPECIFIC ELECTIVE - I : C PROGRAMMING

		LICITIO IT CITED	GIGINITALITO
Tim	e: Three Hours		Maximum: 50 Marks
	Answe	ON-A (5 Marks) er ALL questions carry EQUAL marks	$(5 \times 1 = 5)$
1.	Which of the following is a predoinput from standard input stream (i) printf (iii) fprintf		n that reads formatted
2	Which of the following operators (i) % (iii) &&		cedence?
3	Which of the following functions (i) scanf() (iii) putchar()	s can be used to print a sin (ii) printf() (iv) Both 2 & 3	ngle character as output?
4	which of the following looping so (i) while (iii) for	tatements end with a sem (ii) do while (iv) break	i-colon?
5	A is used to store memory a (i) Pointer (iii) Memory	address as value. (ii) Array (iv) Structure	
		ON - B (15 Marks) or ALL Questions	
6	a. List the different types of constants. Write short notes on Integer Constants. OR		
	b. Explain Integer data types. a. Define operator. List the different types of operators used in c programming OR		
	b. Discuss Implicit type conversion with suitable example. a. How to inputting an integer number? Discuss with example.		
	OR b. Explain simple if statement with suitable example.		
	a. Discuss while statement with exa OR		
10	 b. Explain one dimensional array was a. List the advantages of functions. OR b. Write a C program to print the acceptance. 		with its value.

SECTION -C (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks

 $(5 \times 6 = 30)$

11 a. Write a C program to display the equation of a line in the form ax+by=c for a=5, b=8, c=18

- b. Write C program to calculate the average of a set of N numbers.
- 12 a. Illustrate increment/decrement operators with suitable example.

OR

- b. Elaborate operator precedence and associativity with example.
- 13 a. Illustrate inputting an integer numbers with suitable example.

- b. Demonstrate switch statement with suitable example.
- 14 a. Write the syntax of for statement and write a C program to print all prime numbers between 1 to n.

- b. Write a C program to print multiplication using two-dimensional array.
- 15 a. Illustrate Functions in C with suitable example.

b. How do you open a file in C? Discuss with example.

Z-Z-Z

END