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124 03		5 Iours / 70 Marks Seat No.				
Instructions – (1) All Questions are Compulsory.						
		(2) Answer each next main Question on a new page.				
		(3) Illustrate your answers with neat sketches wherever necessary.				
		(4) Figures to the right indicate full marks.				
(5) Assume suitable data, if necessary.						
		(6) Use of Non-programmable Electronic Pocket Calculator is permissible.				
(7) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.						
		Marks				
1.		Attempt any <u>FIVE</u> of the following: 10				
	a)	Define term flowchart and draw two symbols used in flowchart.				
	b)	Define keywords with example.				
	c)	Explain ternary operator.				
	d)	Define array. Enlist type of array.				
	e) List and four string library functions with syntax.					
	f)	Define pointer with example.				
		Define structure in C				

g) Define structure in C.

a)

b)

c)

d)

2.

Attempt any THREE of the following:12Define Algorithm. Write on algorithm to find average of two
numbers.11Illustrate the use of switch-case statement with example.12Explain declaration and initialisation of two dimensional array
with example.12Find the output of following code void main ().12 $\{int a, b, c, x, y;$
int *P1, *P2;
x = 10;
y = 20;12

P1 = &x; P2 = &y;a = *P1 + *P2;

b = *P1 - *P2;

c = *P1 * *P2;

d = *P2/*P1;

Printf ("a = %d\n b = %d \n c= %d \ n d = %d", a, b, c, d); getch (); }

3. Attempt any THREE of the following:

a) Explain logical operators with example.

b) Describe recursion with example.

c) Explain two input and two output statement with example.

- d) Explain syntax and use of following four math function:
 - i) Floor ()
 - ii) Pow ()
 - iii) Sqrt ()
 - iv) abs ()

Marks

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4. Attempt any <u>THREE</u> of the following:

- a) Write algorithm and draw flowchart to find factorial of a number.
- b) Write a program to find percentage of student marks of five subjects accept the marks from user.
- c) Write a C program to print following pattern using for loop.

1				
1	2			
1	2	3		
1	2	3	4	
1	2	3	4	5

- d) Write a C program to declare array of 10 elements and find out largest element from array.
- e) Write a C program to find factorial of a number using function.

5. Attempt any TWO of the following:

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a) Write a program to print season of a month using switch-case statement. Where following data is provided:

Month	Season
Dec., Jan., Feb.	Winter
Mar., Apr., May	Spring
Jun., July, Aug.	Summer
Sept., Oct., Nov.	Auntmn

- b) Write a program to take input for two 3×3 matrics and calculate multiplication of it. Display the result.
- c) Develop a program to find sum of 10 array elements using pointer.

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6. Attempt any <u>TWO</u> of the following:

- a) Write a program to declare structure book having data members book_name, book_author, book_price, book_ publication, book_no_of_pages. Accept and display information for two books.
- b) Write a program to perform multiplication of two numbers using call by reference.
- c) Write a program to read an array of characters using pointer and count number of vowels in the given array.