17212

15116 3 Hours / 100 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) Mobile Phone, Pager and any other Electronic Communication devices are not permissible in Examination Hall.

Marks

1. Attempt any TEN of the following:

20

- a) Write syntax and use of if-else statement.
- b) State difference between array and string.
- c) Define function
- d) Explain strlen () string function
- e) What is mean by lifetime and scope of variable?
- f) Define token and identifier.
- g) What is conditional operator?
- h) What is function? What is need of function?
- i) State any four control statements.
- j) State what is the use of break and continue statement.

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	k)	Give the meaning of :- int *ptr;	WIARKS					
		int a;						
		ptr = &a						
	1)) What is difference between while and do-while loop?						
2.		Attempt any FOUR of the following:						
	a)	Write a C program to calculate factorial of a number.						
	b) Explain with syntax and example stremp() and streat() functions.							
	c) Explain formatted input and formatted output statement.							
	d) What is recursive function? Explain with example.							
	e)							
	f)	Write a program using pointer to swap the value of two integer numbers.						
3.		Attempt any FOUR of the following:	16					
	a)	Explain in brief auto and extern storage class.						
	b) Explain with example array of pointer.							
	c) Explain special operator in C with example.							
	d)	Write a program to declare structure employee having data member name, street, city. Accept data for three employees and display it.						
	e)	Explain working of for loop with syntax and example.						
	f)	Write a program for addition of two 3×3 matrix						

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			viarks
4.		Attempt any FOUR of the following:	16
	a)	Write a program to read string from keyboard and find whether it is palindrome or not.	
	b)	Explain arithmatic and logical operator.	
	c)	Write a program to find smallest number in 5-element integer array.	
	d)	Write difference between call by value and call by reference.	
	e)	Explain meaning of following statement with reference to pointers.	
		int *a, b;	
		b = 20;	
		*a = b;	
		a = &b	
	f)	Write a syntax of switch case statement and write it's example	e.
5.		Attempt any FOUR of the following:	16
	a)	Write a program to print even number between 1 to 100 numbers.	
	b)	What is meant by increment and decrement operator? Explain with example.	
	c)	What is array? How element of array can be accessed?	
	d)	What is pointer? Explain one example of integer and charact pointer.	ter
	e)	Write a program using loop to print	
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		* *	
		* * *	
		* * * *	
	f)	List different categories of function and explain any one.	

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6. Attempt any FOUR of the following:

16

- a) Explain array of structure with example.
- b) List and explain bitwise operator used in C.
- c) Define.
 - (i) Function defination
 - (ii) Function body
 - (iii) Function call
 - (iv) Function Prototype
- d) Write a C program to accept any integer number and display it's Hexadecimal and octal format.
- e) Write a menu driven program for following option.
 - (i) To find entered year is leap year or not
 - (ii) To display sum of digits of input number.
- f) What is two dimentional array? How it is declared and inicialized? Give example of it.