Time: 3 Hours

Marks: 80

= = = = = = = = = = = = = = = = = = = =	ple choice question	05/ 20/ 20/		10
(a) case	following is valid v (b) int_rate2	ariable name? (c) 2sum	(d) for	
ii. The operato	r is a			6000
•		erator (c) Ternary o	perator (d)Condi <mark>tional ope</mark> rator	5
	O.Y.	o the beginning of l statement (c) conti	oop by using nue statement (d) none of these	
iv. '&' is a (a) Unary		operator (c) Addres	ss operator (d) none of these	
v. dowhil (a) exit	e is(b)entry	_ control loop. (c) count	(d)all of these	
vi. Which is the	e correct way to de (b) int ptr*	clare a pointer? (c) * int ptr	(d) none of these	
vii. Which of th (a) structur		gs to derived data ty (c)pointers	pe. (d) all of the above	
viii. Which fun (a)fputc()	p, 0 x (x x x x x x x x x x x x x x x x x	a character to a file (c) fputs()	e (d)fwrite()	
ix. Each case st (a) break	tatement in switch (b) continue	() is separated by (c) goto	(d) none of these	
p, v,	e following #define =10 (b) #defir	statement is valid? ne x 10; (c) #	define x 10 (d) # Define x 10	)
a. Convert the	mathematical exp	ression into equiva	lent C expression	03
	$xy + z\left(\frac{x}{y}\right) + zy$	$+\frac{3}{c/d}$ function from math li		
	x + y + z 2x + 622(c + d)	3		
	0.00	. 0		

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Q.1

- If x ,y and z are int variable then evaluate the following expression and give final 02 c. value of x,y,z and p. x = 10, y = 6, z = 8p = x-- +y--+-z/(x\*x)i. ii. p = --x + ++y \*z--;d. Compare structure and union with proper example. 02 Explain pointers with example. How array is related with pointers? 03 e. **Q.2** What is function? What do mean by calling function and called function? What are 12 a. function parameters? Using return statement can we return multiple values to calling function? If no then what solution is available? Explain with example. b. Explain break and continue statements with suitable example. 08 WAP to sort the array in ascending order. **Q.3** 10 WAP to accept a string and count no. of vowels and consonants, spaces, digits and 06 special characters in it. 04 c. WAP to find maximum of three numbers using conditional operator. **Q.4** Create a structure Patient having ID, patient\_name and disease\_name as data members. 12 a. WAP to read details of 10 patients and print details of those patients having 'diabetes'. What is a file? What are different types of files? Explain the following file b. 08
- i) fopen () ii) fprintf () iii) fscanf () iv) fgets() v)fputs() vi) fclose()

  Q.5 a. WAP to check whether entered matrix is symmetric or not.
  b. Explain difference between auto and static storage class with suitable example.

  C. WAP to print a pattern

  05

\* \* \*

handling functions in c.

- Q.6 a. What is recursion? How it is different from iteration? WAP to compute factorial of a 12 number using recursion.
  - b. WAP to print Fibonacci series upto n. [Note: n entered by user, use iterative stmt] 08