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Roll No.:...

322315(22)

B. E. (Third Semester) Examination, April-May 2021

(Old Scheme) Washington 4

(CSE, IT Branch)

PROBLEM SOLVING & LOGIC BUILDING using 'C'

Time Allowed: Three hours

Maximum Marks: 80

Minimum Pass Marks: 28

Note: Attempt all questions. Part (a) of each question is compulsory. Attempt any two parts from (b), (c) and (d).

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1. (a) What is a Pseudo Code?

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(b) Describe the basic data types. How could we extend the range of values they represent?

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- (c) Illustrate a program for adding two numbers with the help of algorithm and flowchart.
- (d) Explain the different types of operator used in c with suitable example.

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2. (a) What is the output of the following program:

2 void main()

int i=10,a; a = i++/++i; printf("%d ... %d", a, i);

- (b) Write a C program to print the first 'N' Fibonacci numbers.
- (c) Explain entry-controlled loop and exit-controlled loop with an example.
- (d) Write a program to generate all possible combinations of 1, 2 and 3, without repetition using for loop.

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3. (a) What is the output of the following program

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int a[5];

void main()

a[-2] = 10;

a[2] = 1;

printf("%d", -2[a]);

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- (b) What is difference between pass by value and pass by reference? Write the C coding for swapping of two numbers using pass by reference.
- (c) Explain the purpose of a function prototype. And specify the difference between users define and built in function.
- (d) What are the string handlings functions available inC? Write user defined functions for string copy.

Unit-IV

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322315(22)

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4.	(a) What is the output of the following program	2
	void main()	
	{	
	int a[5];	
	3[a] = 10;	
	printf("%d", *(a+3));	
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(b) What is dynamic memory allocation? Explain variousC functions that are used for the same with the example.

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(c) What is Pointer? Explain how pointers are declared and initialized. State its advantages.

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(d) Discuss the difference between the array of pointer
and pointer to the array with suitable example.

Unit-V

- 5. (a) What is enumeration in c?
 - (b) Explain structures and unions in C language with an example.

(c) What is a File? Explain with an example the file handling functions.

(d) Write a C program to accept student personal and academic details and store in it a file. Print students' mark sheet.