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Roll No:

MCA-IN (SEM I) THEORY EXAMINATION 2021-22 PROGRAMMING IN C

e: 3 Hours		Total Marks: 70
e: Attempt a	all Sections. If require any missing data; then	n choose suitably.
	SECTION A	
Attempt	all questions in brief.	2*7 = 14
a. Brief	Ty differentiate between While and do-Whil	e loop.
	erentiate between local and global variable.	
	ain type conversion in C. ∢	
d. Men	tion any two advantages of using functions i	n C.
e. Disci	uss the advantages of algorithm.	
f. Com	pare and contrast between compiler and inte	rpreter.
g. Ment	ion the rules for variable naming in C.	
	SECTION B	
		7*3 = 2
Attempt	any three of the following:	
a Draw	a flowchart and write the algorithm for findi	ing GCD of two numbers.
	a program in C to calculate the sum of digits	s of a 3 digit number using
b. Write	etic operators. (Note: No loop should be us	sed)
, ,		
c. Write	a Program to print the following pattern.	No.
	*•	
1 1	***	
11	****	\$4.50°
	******	165
!		are from 1 to 500
d. Write a	program in C to print all Armstrong number	ets from 7 to 500.
e Explain	the call-by-value mechanism by using suit	able example.
C. Explain		
	<u> </u>	
	SECTION C	
Attempt 91	ny one part of the following:	7*1 = 7
317ha4 5	s a Computer? Draw a block diagram of a C	Computer and explain each of i
a. What i		•
b. Describ	be the various problem solving techniques.	
o. Descrit	to the various prosents	
		7*1 =
	y one part of the following:	
a. What a	re various data types used in C language? I	llustrate their declaration and
usage.	••	
1		
h Evnlain	the standard input/output functions in C.	

4.

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5. Attempt any one part of the following:

7*1 = 7

- a. Explain the role of precedence and associativity of an operator? Solve the expression based on operator precedence: 1+2*3/6-4
 b. Explain logical operators with examples.
- 6. Attempt any one part of the following:

7*1 = 7

- a. Write a C program to find the roots of a quadratic equation using switch statement.
- b. Write a C program which reads 2 integer numbers and an operator and finds their sum, difference, multiplication and division separately based on the value of operator entered.
- Attempt any one part of the following:

7*1 = 7

- a. Write a C program using a function prime_check(), to check whether a given number is prime. The function returns lifthe number is prime or 0 otherwise.
- b. Explain the purpose of storage classes? Explain all storage classes with suitable examples.

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