International Institute of Professional Studies End-Semester Exam February-March, 2022 MCA (5 Years) –I Semester Section "B" Problem Solving Using C

Time-3 Hrs.]

[Max. Marks-60

Note: - Attempt any five questions. Solve all parts of a question together at one place. Q: - \(\text{A} \) Distinguish between the following terms: 6 (i) Program (ii) Algorithm (iii) Flow Chart B What are the differences between Compiler, Interpreter and Assembler? Q: -2 A Explain the different types of loops in C with the help of examples. 6 B Explain the use of break and continue statement in loops. A What are Arrays, Strings and Matrix in C programming? 6 B List any three string functions from string.h and their uses. Q: -4 Write a program for performing binary search on an integer array. 6 B Write a program to add 2 matrices. 6 Q: -5 A What is call by value and call by reference? Explain with the help of example program. What is recursion? Explain with the help of example program. 6 A What are the differences between Structure and Union? Give Q: -6 6 examples also. B Write a short note on (any two) (i) Data type (ii) Format String (iii) 6 Middle level language (iv) Keywords Q:- V A Write a C Program to print the following output using nested loops: 6 * * * Write a program to check weather a given string is palindrome or 6 Write a note on (any three): Q: -8 12 (i) if statement (ii) switch statement (iii) enum (iv) typedef (v) Pointers

	IIPS, DAVV, 2021 Test-1, MCA I B, Date 28-12-2021	JC-2K21-96
Q:-1	Write the difference between Compiler, Interpreter and Assembler.	2 21
Q:-2	Draw a flow chart for exchanging the values of two variables.	
Q:-3	If a five-digit number is input through the keyboard, write an algorithm to reverse	
	the number.	
Q:-4	Write a program using user defined function that receives marks received by 3	
	students' individually in 3 subjects and returns the average and percentage of	
	these marks. Call this function from main() using a loop and print the results in	
	main().	

	HPS, DAVV, 2022 Test-2, C-Prog., MCA 1 B
Q:-1	what is array? Write a Program to find and count duplicate alarmy.
X	white a program to perform unitary search on already control
V3	. What is pointer? What operations can be porformed.
Q:-4	What is recursion? Write a program for finding factorial of a given number using recursion.
	a program for finding factorial of a given number using recursion.

IC-2421-96

International Institute of Professional Studies Hnd Mid Test- 2022 MCA (6 Y) Ist Semester (Sec-A) IC-104B (Fundamentals of programming using C)

Duration: 1 hour

(Attempt all questions)

Q: -1 (a) Narrate the structure and functions of For Loop? Write a program to find maximum and minimum number among 6 N numbers entered by the user using For loop.

- (b) Narrate the structure and functions of Do- While loop? Write a program to display n terms of Fibonacci series using 6 Do-While loop.
- Write a program to find multiplication of two matrices entered by the user. 0:-2