Code No: MC1611/R16

MCA I Semester Supplementary Examinations, February-2020 C PROGRAMMING AND DATA STRUCTURES

Time: 3 Hours Max. Marks: 60

Answer Any FIVE Questions			
		All Questions Carry Equal Marks	
1.	a	What is an algorithm? How to design an algorithm?	6M
	b	What are bitwise and logical operators? Explain with suitable programming example	6M
2.	a	Explain in detail about various control structures in C.	6M
	b	Write notes on Operators and Expression evaluation in C.	6M
3.	a	Write a C program to find the factorial of a given number using recursion	6M
	b	Explain the advantages of functions in C language	6M
4.	a	What is an Array? How to define and declare 2-D array explain with an example	6M
	b	Write and explain various string handling functions in 'C'.	6M
5.	a	Define pointer. How to pass an address to functions give an example.	6M
	b	Write short notes on pointer to pointer and array of pointers.	6M
6.	a	Explain any three output functions of the file.	6M
	b	Write a program to copy one file to another file	6M
7.	a	Define a Stack and their Application?	5M
	b	Write a C Program explain the linked list implementation of Stack?	7M
8.	a	What is meant by graph? Write a program in C++ to implement a graph	6M
	b	Explain Kruskal's algorithm	6M