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Roll No.								ľ

NOIDA INSTITUTE OF ENGINEERING AND TECHNOLOGY, GREATER NOIDA

(An Autonomous Institute)

Max. Mks.: 30

Affiliated to Dr. A.P.J. Abdul Kalam Technical University, Uttar Pradesh, Lucknow MCA

FIRST YEAR (SEMESTER-II) THEORY EXAMINATION (2020-2021)

(Subjective Type)

Subject Code: AMCA0203

Subject: <u>Data Structures</u> : 50 Minutes

General Instructions:

All questions are compulsory.

Question No. 1 to 15 are subjective type question carrying 3 marks each. Attempt any 10 out of 15 questions.

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Туре	Difficulty
1	Differentiate between while and do while loop		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
2	Define arrays and their types		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
3	Write down the syntax for declaration of single and multi dimensional array		Attempt any 10 questions	10 x 3=30	3		Subjective	Smart
4	Define Linked list and their types		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
5	Define Circular linked list		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
6	List down the operations performed on linked list		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
7	Define Stacks and their operations	1 of 2	Attempt any 10 questions	10 x 3=30	3		Subjective	Smart

Q.No	Question Content	Question Image	Category	Sub Category	Marks	Options Randomization	Туре	Difficulty
8	What is the difference between peek() & pop() ?		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
9	What do you mean by push & Dop operation? Write down the steps to perform push and pop		Attempt any 10 questions	10 x 3=30	3		Subjective	Genius
10	Define Tree and its properties		Attempt any 10 questions	10 x 3=30	3		Subjective	Smart
11	List down different types of Binary Trees. Explain any one of them in detail		Attempt any 10 questions	10 x 3=30	3		Subjective	Smart
12	List down various operations in Binary Search Tree and explain them		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
13	Define graph ? Give an example of graph.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
14	Define directed graph. Illustrate with help of example.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant
15	Define file ? List down different types of files. List any three operations performed on file.		Attempt any 10 questions	10 x 3=30	3		Subjective	Brilliant