



## **Internal Assessment Test II – November 2019**

Sub:	Design and Analysis of Algorithms							Code:	18MCA33
Date:	16 -11-19	Duration:	90 mins	Max Marks:	50	Sem:	III A	Branch:	MCA

Note: Answer any full 5 questions. All questions carry equal marks.

Total marks: 50

OBE

**RBT** 

L1

L2

L2

L3

L4

L2

L3

L4

CO

CO<sub>1</sub>

CO2

CO3

CO4

CO<sub>2</sub>

CO3

CO4

Marks

10

10

10

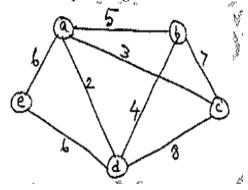
1. Describe the general method for divide and conquer. State the Masters Theorem

(OR)

- 2. Explain and write algorithm for the brute force string matching process and Apply it to search for ABABC using the above algorithm in the text: BAABABABCCA.
- 3. Write an algorithm to multiply two large integers using divide and conquer and analyze its efficiency. Use the divide and conquer strategy to multiply 6721 and 3032.

(OR)

4. Explain and design Prim"s algorithm and apply it for the given graph to find minimum cost spanning tree .



- 5. a) Explain the greedy method and write the general algorithm for the method
  - b) Define Minimum spanning tree and mention its applications

(OR)

10	CO2	L3
	CO3	L4
	CO4	
	CO6	
5	CO2	L3
5	CO3	L4
	CO4	
	CO6	

