Subject Code: **10B1WBI515** {614}
Subject Name: Advanced Algorithms for BI
Course Credits: 04

Maximum Marks: 15

Time: 1Hr.

*Attempt all questions. All parts of each question have to be answered in one place .Carrying of mobile phone in examination centre will be treated as unfair means case.*

Q.1. Define search tree algorithm for motif search with all four distinct steps. [3]

Q.2. What is a median string? Describe its complexity. How it is different form Brute force motif search? [2]

Q.3. Define motifs in various form. Write pseudocode for Brute force motif search algorithm. [3]

Q.4. Define various mathematical characteristics of similarity and distance systems. [2]

Q.5. What are important criteria followed by algorithms. Explain performance analysis of algorithms in terms of apriori estimates and posteriori testing. [3]

Q.6. Differentiate between edit and Hamming distances with an example of each. [2]