

STELLA MARIS COLLEGE (AUTONOMOUS) CHENNAI 600 086

(For candidates admitted from the academic year 2015 – 2016 & thereafter)

SUBJECT CODE: 15BI/PC/AB34

M. Sc. DEGREE EXAMINATION, NOVEMBER 2018

BIOINFORMATICS

THIRD SEMESTER

COURSE : CORE

PAPER : ALGORITHMS FOR BIOINFORMATICS

TIME : 3 HOURS

MAX. MARKS: 100

SECTION - A

ANSWER ANY TEN QUESTIONS:

(10x10=100)

1. Restriction Mapping Algorithm
2. String matching algorithm – with DNA replication as an example.
3. BLAST algorithm
4. Dynamic Programming
5. Motif Finding using Greedy approach
6. Sequencing by hybridization algorithm
7. Combinatorial Pattern Matching
8. *k*-means Clustering
9. ANN
10. Algorithm Design Techniques.
11. Keyword trees and suffix trees Algorithm
12. Character-Based Evolutionary Tree Reconstruction
