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PSG COLLEGE OF ARTS & SCIENCE (AUTONOMOUS)

MSc DEGREE EXAMINATION DECEMBER 2018 (Third Semester)

Branch - BIOCHEMISTRY

BIOINFORMATICS

Time: Three Hours

Maximum: 75 Marks

SECTION -A (30 Marks)

Answer ALL questions ALL questions carry EQUAL Marks (5 x 6 ^ 30)

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1 a Write a short note on FTP.

OR *

b Give a brief account on XML.

2 a Describe the specialized organism databases.

OR

b What is SRS system? How is it useful for biological databases?

3 a Comment on Global alignment.

OR b Explain Transmembrane Region analysis.

- 4 a What is E-cell? Explain its significance. OR
 - b Discuss about ORF prediction.
- 5 a Briefly explain Homology modeling.
 OR
 b Discuss the applications of NMR in structure analysis.

<u>SECTION -B (45 Marks)</u> Answer any THREE questions ALL questions carry EQUAL Marks (3 x 15 = 45)

- 6 Describe in detail about Perl and its applications in bioinformatics.
- 7 Give a detailed account of sequence and structure databases.
- 8 Discuss about the various methods of phylogenetic analysis.
- 9 Explain the functional genomics in detail.
- 10 Discuss about protein structure databases and visualization tools.