PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

BSc DEGREE EXAMINATION MAY 2019
(Fifth Semester)

Branch - **BIOCHEMISTRY**

COMPUTATIONAL TECHNIQUES IN BIOINFORMATICS

Time : Three Hours   Maximum : 75 Marks

SECTION-A (20 Marks)
Answer **ALL** questions
ALL questions carry **EQUAL** marks   (1 0 x 2 = 20)

1   What is HTML?
2   What is FTP?
3   Mention any two important feature of NCB1.
4   Define Bioinformatics.
5   What is Sequin?
6   What is SRS?
7   What is the statistical tool used for sequence alignment?
8   What is consensus sequences called? Mention its significance.
9   What is RAM PAGE?
10   What is RasMol?

SECTION - B (25 Marks!
Answer **ALL** Questions
ALL Questions Carry **EQUAL** Marks (5 x 5 = 25)

11 a   BriefonXMLandPHYTHON.
                         OR
     b Write a note on WWW and HTTP.

12 a Write a short note on applications of bioinformatics.
                         OR
     b Give an account on accessing and saving files using PubMed.

13 a Write note on Gen Bank and its structure.
                         OR
     b Give an account on protein database.

14 a   Describe BLAST.
                         OR
     b Give an outline on multiple sequence alignment.

15 a   Elaborate on structure-bass drug designing.
                         OR
     b Give a brief note on tool for Ramachandran plot.

SECTION - C (30 Marks)
Answer any **THREE** Questions
ALL Questions Carry **EQUAL** Marks (3 x 10 = 30)

16   Give an account on methods of connecting to internet.

17   Give a detailed account on NCB1.

18   Explain Sequence retrieval from NCB1 and Swiss-port.

19   Describe the computational approaches to sequence alignment.

20   Write a not on structure-based drug designing.

Z-Z-Z   END