

PSG COLLEGE OF ARTS & SCIENCE
(AUTONOMOUS)

MSc DEGREE EXAMINATION MAY 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)

- 1 a Write a short note on Commercial Software.
OR
b Explain different types of variables used in Pearl.
- 2 a Discuss the salient features of 2^o structure databases.
OR
b Write a note on pubmed.
- 3 a Give an account on BLOSUM.
OR
b How will you detect pattern, motif and transmembrane region in a sequence?
- 4 a Write a note on metabolomics.
OR
b Discuss the importance of medical informatics.
- 5 a Write a note on Threading.
OR
b How x-ray diffraction and NMR is helpful in structural analysis?

SECTION -B (45 Marks)

Answer any **THREE** questions

ALL questions carry **EQUAL** Marks (3 x 15 = 45)

- 6 Explain the concept of search engine.
- 7 Write in detail about HGP.
- 8 Give an overview of various methods to infer phylogenies.
- 9 Explain the steps for discovering a drug.
- 10 Describe the 2^o structure prediction.

Z-Z-Z

END