

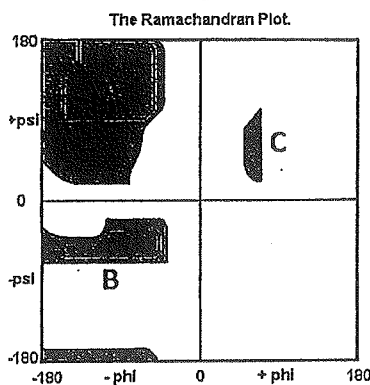
BT404 ADVANCES IN COMPUTATIONAL BIOLOGY

Time: 1:30 Hours

Max. Marks: 20

Note : Answer all questions.
All questions carry equal marks.
Assume suitable missing data, if any.

- Q1. [a] Describe different experimental approaches for protein structure determination. [2]
- [b] Name a protein 3D structural database. Briefly describe the contents of PDB file data format. [2]
- [c] Label the below diagram



- [3]
- Q2. [a] What are the applications of pharmacogenomics studies? [1]
- [b] How can patients be categorised according to their drug metabolising ability? [2]
- [c] In what way above categorization can be of use in predictive prescribing? [4]

P.T.O.

Q3. [a] Write some applications of SNP studies. Also mention two widely used SNP databases. [3]

[b] Explain the effects of mutations in coding and noncoding region of eukaryotic genome. [3]

END