2012

M.Sc.

3rd Semester Examination

BIOTECHNOLOGY

PAPER—306

(PRACTICAL)

Full Marks : 40

Time : 4 Hours

The figures in the right-hand margin indicate full marks.

Candidates are required to give their answers in their own words as far as practicable.

Answer *all* questions.

1. Transcribe the given nucleotide sequence into protein. Use any one of the transcribed protein sequence for BLAST. Generate a phylogenetic tree by using boot strap neighbour joining method through any bio-informatic tool. 3+6+6

[Principle + Procedure + Result]

Or

Show the SNP and chromosome location of a supplied gene.

2. Find out the tertiary str. of the provided PDB ID. Give specific details of the targetted protein i.e., protein name, atom no, amount of α-helix, β-pleated sheet and modelling method, resolution used for str. prediction and whether the protein is a monomer or polymer

4+5+6

[Principle + Procedure + Result]

3. Practical Note Book 5

4. Viva-Voce 5
