

**THE TAMIL NADU DR. M.G.R. MEDICAL UNIVERSITY**

**[MPHARM 0921]**

**SEPTEMBER 2021  
(OCTOBER 2020 EXAM SESSION)**

**Sub. Code: 2967**

**M.PHARMACY DEGREE EXAMINATION  
SEMESTER-II (PCI New regulations 2016)  
PHARMACEUTICAL BIOTECHNOLOGY - MPB  
PAPER III – BIOINFORMATICS AND COMPUTER TECHNOLOGY  
*Q.P. Code : 262967***

**Time : Three hours**

**Answer ALL Questions**

**Maximum : 75 Marks**

**I. Elaborate on:**

**(2 x 20 = 40)**

1. Elaborate in detail about the Construction of Phylogenetic Tree.
2. a) What is structural database?  
b) Explain briefly about the sequence of database management and storage.

**II. Write notes on:**

**(7 x 5 = 35)**

1. Explain about the Homology modeling.
2. How to interpret docking results?
3. Explain in detail about Sequence assembly.
4. Give a note on significance of proteome.
5. Explain the role of ligand libraries for high throughput screening.
6. Write a note on Topology fingerprint approach for prediction of protein.
7. Illustrate about the Surface mapping of proteins.

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