

JADAVPUR UNIVERSITY

Dept. of Pharmaceutical Technology

M. Pharm 1st year, 2nd semester, 2024

Sub: Protein and Protein Formulations

Time: 3hrs

Full Marks: 75

Answer ANY FIVE of the following questions

1. What are the techniques of Proteomics? What are the steps involved in proteome analysis? 5+10 =15
 2. Write short notes on the following: 5X3 =15
 - a. Therapeutic value of peptidomimetics.
 - b. The problems associated with protein drug formulation.
 - c. Group I protein therapeutics with suitable examples.
 3. What is PEGylation? Briefly explain the steps associated with isolation and purification of proteins. 5+10 =15
 4. Write physical and chemical stability of protein. Write the pharmacokinetics and pharmacodynamics of peptide and protein drug delivery. 8+7 =15
 5. Explain protein as a therapeutic agent. Classify protein therapeutic agents based on their pharmacological actions. 8+7 =15
 6. Write down the advantages and disadvantages of peptidomimetics. Classify peptidomimetics. 7.5+7.5 =15
 7. Write down the methods to produce recombinant proteins with examples. 15
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