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

[LP 965] NOVEMBER 2019 **Sub. Code: 2965**

M.PHARM. DEGREE EXAMINATION
(PCI New regulations 2016)
SEMESTER-II
BRANCH-IV – PHARMACEUTICAL BIOTECHNOLOGY – MPB
PAPER I – PROTEINS AND PROTEIN FORMULATION

Q.P. Code : 262965

Time : Three hours **Maximum : 75 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Discuss the concepts in the isolation and purification of proteins. Add a note on gene shuffling.

2. Discuss the various strategies for protein and DNA formulation.

II. Write notes on: **(7 x 5 = 35)**

1. Protein sequencing methods.
2. Methods of Protein degradation.
3. Rational drug design and peptide drugs.
4. Methods of Protein characterization.
5. Non peptide peptidomimetics.
6. Gel Electrophoresis.
7. Peptide mapping.

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

[MPHARM 0921] SEPTEMBER 2021 Sub. Code: 2965
(OCTOBER 2020 EXAM SESSION)

M.PHARMACY DEGREE EXAMINATION
SEMESTER-II (PCI New regulations 2016)
PHARMACEUTICAL BIOTECHNOLOGY - MPB
PAPER I – PROTEINS AND PROTEIN FORMULATION
Q.P. Code : 262965

Time : Three hours **Answer ALL Questions** **Maximum : 75 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Explain in detail about strategies used in the protein formulation.
2. Discuss isolation and purification of proteins.

II. Write notes on: **(7 x 5 = 35)**

1. Protein sequencing.
2. Peptidomimetics.
3. Biophysical properties of proteins.
4. Identification of proteins.
5. Electrophoresis and image analysis.
6. Tryptic peptide mapping.
7. Physical considerations of proteins.

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

[M.PHARM 0922] SEPTEMBER 2022 Sub. Code: 2965
(APRIL 2022 EXAM SESSION)

M.PHARMACY DEGREE EXAMINATION
SEMESTER - II (PCI New regulations 2016)
PHARMACEUTICAL BIOTECHNOLOGY - MPB
PAPER I – PROTEINS AND PROTEIN FORMULATION

Q.P. Code : 262965

Time : Three hours **Answer ALL Questions** **Maximum : 75 Marks**

I. Elaborate on: **(2 x 20 = 40)**

1. Different methods for Protein Engineering.

2. 2 Dimensional Gel electrophoresis -Methods, Resolution and reproducibility.

II. Write notes on: **(7 × 5= 35)**

1. Edman degradation.
2. N and C -terminal tags.
3. Forced degradation studies.
4. PEGylation of proteins.
5. Isotope labelling.
6. Tryptic peptide mapping.
7. Neon-particulate system.

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