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**BRAINWARE UNIVERSITY****Term End Examination 2024-2025****Programme – M.Pharm(Pharmaceutics)-2024****Course Name – Molecular Pharmaceutics (Nano Tech and Targeted DDS)****Course Code - MPH201T****( Semester II )****Library****Pharmaceutical Technology****Brainware University****Barasat, Kolkata-700125****Full Marks : 75****Time : 3:0 Hours**

[The figure in the margin indicates full marks. Candidates are required to give their answers in their own words as far as practicable.]

**Group-A****(Short Answer Type Questions)****5 x 5=25**

1. Explain the process of purification of nanoparticles. (5)
2. Explain the hot homogenization technique for the development of SLN. (5)
3. State the characteristics of targeted drug delivery systems. (5)
4. Write the anatomy of lung focusing pulmonary targeting of therapeutics. (5)
5. Justify the advantages of electrosomes in drug delivery and biomedical applications. (5)

**OR**

Explain the basic concepts of monoclonal antibody in drug delivery system. (5)

**Group-B****(Long Answer Type Questions)****10 x 5=50**

6. Discuss the limitations of targeted tumor therapy. (10)
7. Briefly explain the physiological functions of blood brain barrier. (10)
8. Explain the lipid film hydration and micro-emulsification methods for the development of liposomes. (10)
9. Explain the different evaluation parameters of neosomes. (10)

**OR**

Assess the properties of aquasomes as an effective drug carrier. (10)

10. Explain the mechanism of antisense activity in the field of gene therapy. (10)

**OR**

Briefly explain the method of preparation for electrosomes. (10)