

Enrolment Number

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M.Pharm 2nd Semester Examination**Molecular Pharmaceutics****Course Code: MPH201T****Full Marks – 75****Time –3 hours***(The figure in the margin indicates full marks for the questions)***i. Answers the followings (Limit 50 words)**

(10 x 2 = 20)

1. Relate the EPR effects with the targeting of drug to tumor tissue.
2. Analyze the role of cholesterol as a stabilizing agent in liposome formulations.
3. Aquasome are nano sized water droplets-explain.
4. Suggest a method for preparing gelatin Nano particles.
5. Explain importance of PDI and Surface charge in liposomal evaluation.
6. Enumerate the preparation technique of proniosome.
7. Identify commonly employed polymers in the preparation of nanoparticles.
8. Discuss the methodologies for distinguishing between oligo and multilamellar liposomes.
9. Name some novel excipients used in inhalation drug delivery.
10. Explain passive drug targeting with an example.

ii. Answer any seven questions (Limit 500 words)

(7 x 5 = 35)

1. Explain the role of tumor microenvironment in drug targeting.
2. Enumerate the production and use of aptamers in drug delivery.
3. Explain active targeting strategies for drug delivery to tumor site.
4. Enumerate the preparation of liposome by DRV method and its advantages.
5. Describe post formulation processing of nanoparticles.
6. Enumerate the preparation of Solid lipid nano particles.
7. Describe method of preparation of monoclonal antibodies using hybridoma technology
8. Intranasal route is a promising pathway to brain targeting- Explain with example.
9. Discuss the evaluation parameters of phytosome.

iii. Answer any two questions (Limit 1200 words)

(2 x 10 = 20)

1. Describe various strategies for brain specific drug delivery.
2. Explain the formulation techniques of microparticles.
3. Discuss various strategies of drug targeting.