

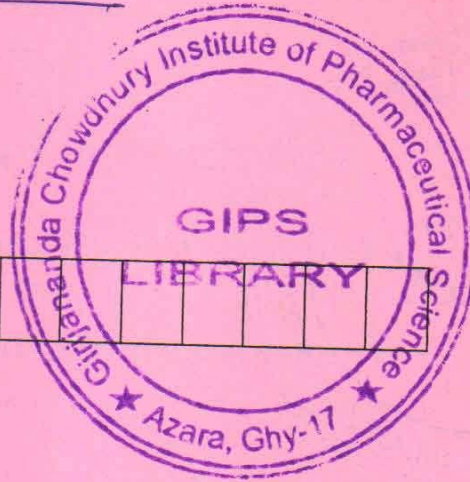
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2018

M.Pharm. 2nd Semester End-Term Examination

**MOLECULAR PHARMACEUTICS (NANO
TECHNOLOGY AND TARGETED DDS) (NTDS)**

Full Marks – 75

Time – Three hours

The figures in the margin indicate full marks
for the questions.

SECTION A — (5 × 2 = 10 marks)

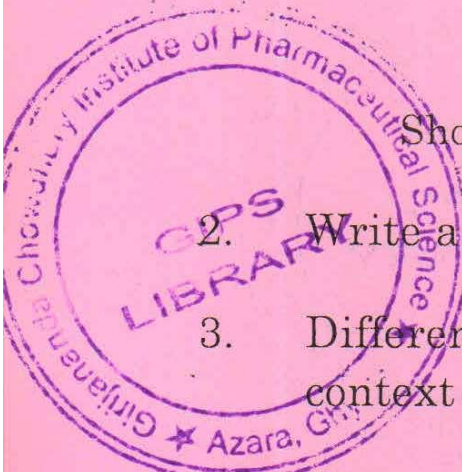
Very Short Answer type question. (Compulsory)

1. (a) What do you mean by drug targeting?
- (b) Differentiate Phytosomes and Aquasomes.
- (c) What are therapeutic antisense molecules?
- (d) What are the criterias for choosing suitable propellents for pulmonary drug delivery systems?
- (e) What are SLNs?

[Turn over

SECTION B — (7 × 5 = 35 marks)

Short Answer type questions. (Any Seven)

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2. Write a note on Monoclonal antibodies.
 3. Differentiate microspheres and nano particles in context of drug delivery.
 4. Discuss the role of gene therapy in potential target disease as cancer.
 5. Write in brief about the application of niosomes
 6. Discuss Intra Nasal Route as a potential route of controlled release drug delivery systems.
 7. Discuss non covalent instability of protein and peptide drugs.
 8. Discuss any two method of preparation of microspheres.
 9. Discuss Aptamers as future agent for drug delivery.
 10. Explain different techniques to characterize microcapsule.

SECTION C — (3 × 10 = 30 marks)

Long Answer type question. (Any Three)

11. Discuss different types of targeting approaches used for tumour targeting.
12. Discuss in brief about preparation and characterization techniques used for nano particles.

13. What are liposomal drug delivery? What are the basic structural components of liposomes? Explain different techniques by which liposomes can be characterized? (2 + 3 + 5)
14. Write a note on types, preparation and evaluation of Pulmonary Drug delivery systems.
15. Discuss the different strategies of targeting drug successfully in Brain.

