

Enrollment No: _____

Exam Seat No: _____

C.U.SHAH UNIVERSITY

Summer Examination-2019

Subject Name: Molecular Pharmaceutics (Nano Techn & Targeted DDS)

Subject Code: MPH201T

Branch: M.Pharm (Pharmaceutics)

Semester: 2 **Date :** 16/04/2019

Time : 02:30 To 05:30

Marks : 75

Instructions:

- (1) Use of Programmable calculator & any other electronic instrument is prohibited.
- (2) Instructions written on main answer book are strictly to be obeyed.
- (3) Draw neat diagrams and figures (if necessary) at right places.
- (4) Assume suitable data if needed.

Q-1 **Define the following:** **(20)**

- a) Prodrug
- b) Aquasomes
- c) Phytosomes
- d) Electrosomes
- e) Active targeting
- f) Passive targeting
- g) Artificial Chromosomes
- h) Gene therapy
- i) Pulmonary Residence Time
- j) Enteric Targeting

Attempt the following questions:

Q-2 **Attempt any two of following :** **(20)**

- A** Write about the role and importance of nanoparticles in targeted drug delivery system. **10**
- B** Enlist the various methods of preparation liposomes and discuss its evaluation parameters. **10**
- C** Write a note on Phase Separation method. **10**

Q-3 **Attempt any Seven of following :** **(35)**

- A** Discuss the critical problems associated with Liposome's drug delivery system
- B** Write a note on microemulsions.
- C** Discuss the role of propellants in Pulmonary Drug Delivery Systems.
- D** Applications of liposome in drug targeting
- E** Write a note on monoclonal antibodies in drug targeting.
- F** Write a note on Niosomes antibodies in drug targeting.
- G** Explain the importance and development of magnetic microspheres in targeted drug delivery system
- H** Write briefly about Nonviral Approaches for Cancer Gene Therapy
- I** Write a note on Recombinant DNA technology

