Ref. No.: EX/PG/PHAR/T/111A/29/2017

MASTER OF PHARMACY FIRST SEMESTER EXAMINATION, 2017

Pharmaceutics -I

Time: three hours

Full Marks 100

Answer any five questions taking at least one from each group.

GROUP - A

- 1. i) Write down the definition, optimization, mechanism of action & pharmaceutical applications of Iontophoresis. (20)
- 2. i) How ultrasonic wave may influence the drug permeation through skin?
 - ii) How can you optimize this technique?
- iii) Briefly mention at least 5 applications of Sonophoresis

(20)

- 3. Briefly discuss any four of the following:
 - i) Air handling in aseptic pharmaceutical unit.
 - ii) Controlling of release rate from solution type indictable.
 - iii) Vapour Pressure Powered Pumps.
 - iv) Properties of an ideal implantable parenteral system.
 - v) Advantages & disadvantages of gastrointestinal muco-adhesion.

M. PHARM 1st YEAR 1ST SEMESTER EXAMINATION, 2017

SUBJECT: PHARMACEUTICS I GROUP – B

4 . (a)	Elaborate the merits and limitation of drug administration through nasal route.	10
(b)	Discuss the factors that influence the absorption of drugs across the nasal epithelium.	5
(c)	Describe the composition of nasal secretions.	5
5 , (a)	With a neat sketch elaborate the mechanism of nasal drug delivery.	10
(b)	Write a note on the delivery aspects of nasal administration. Explain any three delivery systems	√ 4+6
6. (a)	"Though delivery of drugs by the vaginal route is well understood, yet it is still limited Explain.	!". 10
(b)	Write short notes on	
i.	Microparticulate systems	
ii.	Vaginal delivery of peptides and proteins.	5x2