

Ref. No.: EX/PHARM/T/411/2017(S)

B. PHARM. 4th Year, 1st Semester Supplementary EXAMINATION, 2017

Pharmaceutics – VII

Time: three hours

Full Marks 100

Answer any *five* questions taking at least one from each group. Use separate answer scripts for each group

GROUP – A

1. i) Explain the mechanism involve in the process of Iontophoresis & Sonophoresis.
ii) Briefly explain the optimization of both these techniques. (20)
2. i) Give an overview on liposomal drug delivery system
ii) What is the fate of such materials in our body? (20)
3. Write short note on any two of the following:
i) Physical stabilization of multiple emulsions.
ii) Pharmaceutical applications of Sonopheresis.
iii) Pharmaceutical applications of Iontophoresis (20)

B. Pharm 4th year, 1st Semester (Supplementary) Exam 2017

SUBJECT- Pharmaceutics VII

GROUP - B

4. What do you mean by genetic recombination? What is a vector? Describe the characteristics of an ideal vector. Give the cloning process in details.

$$2+2+5+11 = 20$$

3. What is called gene therapy? How antisense therapy is different from gene therapy? How will you design antisense oligomers? Write down the various biotransformation processes with examples.

$$2+3+5+10 = 20$$

B. PHARMACY 4TH YEAR 1ST SEM SUPPLEMENTARY EXAM-2017

Subject: PHARMACEUTICS-VII

Time: Three Hours

Full Marks: 100

GROUP-C

Use separate Answer scripts for each Group.

Q. No		Marks
Q6.	a) Define packaging materials. Compare the different types of glasses used as packaging materials? Give examples of at least 4 polymers and discuss their properties suitable for packaging of pharmaceutical products.	16
	b) Discuss infusion devices.	4
Q7.	a) Classify pro-drugs based on their site of activation with suitable examples of each class.	8
	b) Give examples of at least 06 pro-drugs clearly discussing the pharmacokinetic implications.	12