Paper Id: 256102 Roll No:

M PHARM
(SEM-I) THEORY EXAMINATION 2019-20
DRUG DELIVERY SYSTEM

Time: 3 Hours ***Total Marks: 75***

Note: 1. Attempt all Sections. If require any missing data; then choose suitably.

SECTION A

1. Attempt *all* questions in brief. 10 x 2 = 20

a. Classify the rate controlled drug delivery systems

b. Define pharmacogenetics.

c. Write a note on Alzet osmotic pump.

d. Define vaccines.

e. Mention the evaluation parameters of protein and peptide delivery.

f. Write a short note on conjunctival absorption.

g. Discuss briefly the factors influencing sustained release formulation.

h. Discuss the pH activated drug delivery system.

i. Discuss Bioelectronic medicines.

j. Write a note on mechanically activated rate controlled drug delivery system.

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SECTION B

2. Attempt any *two* parts of the following: 2 x 10 = 20

a. Discuss the modulation of gastric transit time approaches used to extend GI transit time.

b. Write the evaluation of transdermal drug delivery system.

c. Discuss the formulation approaches to ocular drug delivery.

SECTION C

3. Attempt any *five* parts of the following: 7 x 5 = 35

a. Discuss the formulation of protein and peptide delivery systems.

b. Classify polymers with example.

c. Discuss in detail about physicochemical factors affecting sustained release formulation.

d. Discuss the factors influencing buccal absorption of drug.

e. Write a note on mucosal delivery of vaccine.

f. Write a note on penetration enhancers.

g. Discuss the feedback regulated drug delivery system.