Paper Id: 256103 Roll No:

M. PHARM
(SEM-I) THEORY EXAMINATION 2019-20
MODERN PHARMACEUTICS

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. Write a short note on tools of cost control.

b. What is drug-excipient interaction study?

c. Discuss the pharmacokinetic parameters.

d. Write a note on effect of friction on compression.

e. Write the advantages of production control.

f. Discuss the types of validation in brief.

g. Enlist the types of experimental design.

h. What is the meaning of "current" according to GMP regulation?

i. What is chi square test? Write the important characteristics of a chi-square test.

j. Define Heckel plot.

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SECTION B

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

a. What is consolidation? Discuss consolidation process and consolidation mechanism?

b. Discuss the various theories of emulsification?

c. Define inventory and discuss the inventory management and control.

SECTION C

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

a. Write the content of Master formula as per WHO.

b. Write a note on DQ,IQ, and PQ.

c. Discuss difference factor (f_1) and similarity factor (f_2).

d. Write a note on statistical design.

e. Give a brief description of physics of tablet compression.

f. Write the components of validation protocol.

g. Discuss the factors affecting dissolution.