Code: 17S03102

M.Pharm I Semester Regular Examinations February 2018

MODERN PHARMACEUTICS

(Pharmaceutics)

(For students admitted in 2017 only)

Time: 3 hours Max. Marks: 60

Answer all the questions

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1 Describe the stability testing procedures employed for the evaluation of suspension stability.

OR

2 (a) Write the full factorial design for 3 factor 3 level experiment.

(b) What are the applications & limitations of Arrhenius equation?

3 Describe the procedures involved in validation of dissolution test apparatus.

OR

4 (a) Write the validation protocol suitable for the compression machine.

(b) Write a note on types of validation.

5 (a) Write about the CGMP requirements for maintenance of warehouse.

(b) Write a note on inventory control.

OR

6 Discuss about the key elements of TQM. Write a note on role of employer involvement in TQM.

7 (a) Discuss the theories involved in describing the mechanisms of bonding during compression process.

(b) Describe Kawakita plots.

OR

8 Mention the events that occur in compression process. Describe the deformation process.

9 The dissolution data observed from the standard and test product of Diclofenac sodium 50mg tablets is furnished below. Calculate f_1 and f_2.

Time (Min)	Amount of Drug Dissolved (mg)	
	Standard product	Test product
5	28	25
10	37	30
15	44	42
20	47	45
30	49	47

OR

10 From the following dissolution data, calculate dissolution efficiency and dissolution rate constant by assuming the drug dissolution follows first order kinetics. Strength of the tablet is 150 mg.

Time (Min)	Amount of Drug Dissolved (mg)
5	40
10	70
15	90
20	96
30	98

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