Total No. of Questions : 14]

M. PHARMACY DEGREE EXAMINATIONS, JULY - 2022
First Semester
PHARMACEUTICS
MODERN PHARMACEUTICS

Time : **Three Hours**   Maximum : 75 Marks

SECTION - A

Answer any FIVE Questions.   5x5 = 25 M

1. Discuss the methods for testing of drug - excipient compatability studies.

2. Describe the validation of tabletting process.

3. Discuss the layout of buildings, services, equipment and their maintenance in Industries.

4. Explain the variance and standard deviation with its significance.

5. Write a note on statistical design and factorial designs and their applications in formulation.

6. Discuss the concept of TQM and material management.

7. Discuss the properties of granules effecting the compression behaviour of tablets.

SECTION - B

Answer any FIVE Questions.   5x10 = 50 M

8. Discuss the preparation and evaluation of SMEDDS. Add a note on theories of dispersion.

9. Discuss the ICH guidelines for calibration and validation of equipment with an example.

10. Write in detail about sales forecasting and budget planning in Pharmaceutical Industries.

11. What is compaction profile and discuss the phases of compaction profiles with suitable examples.

12. Discuss the methods for determination of the order of a reaction and also explain photo degradation and its testing procedure.

13. a) Discuss various pharmacokinetic parameters for determination of bioavailability.

    b) Describe the comparision of dissolution profiles of dosage forms using similarity factors.

14. Write the objectives and policies of CGMP. Discuss about Inventory management and planning control.

➤●❂●◆

M. PHARMACY (SUPPLE) DEGREE EXAMINATIONS, JANUARY - 2022
First Semester
PHARMACEUTICS

MODERN PHARMACEUTICS

Time : **Three Hours**

Maximum : 75 Marks

SECTION - A

Answer any FIVE Questions.   5x5 = 25 M

1. Write a brief note on theoretical aspects of SMEDDS.

2. Write a brief note on URS and PQ of facilities.

3. Explain in brief the linearity concept of significance.

4. Write a short note on total quality management.

5. What do you mean by validation and calibration of master plan.

6. Write down the basic principles of ANOVA test.

7. Explain about tablet compression and consolidation.

SECTION - B

Answer any FIVE Questions.   5x10 = 50 M

8. Describe the physics of tablet compression.

9. Describe the applications of factorial designs and contour designs in Pharmaceutical formulation.

10. Explain the ICH guidelines for calibration and validation of Pharmaceutical equipments.

11. Discuss in detail about Production management.

12. Discuss the preformulation studies for pharmaceutical formulations.

13. Write a note on :

    a)   Key elements of validation master plan.

    b)   Similarity and differential factors.

14. a)   Explain the theories of dispersion.

    b)   Write about Heckel and Peppas Plot.

MPH 103 T

Total No. of Questions :14]

[Total No. of Pages : 02

I/II M.PHARMACY (Regular) DEGREE EXAMINATIONS, FEB-2019
First Semester
M.PHARMACY (PHARMACEUTICS)
MODERN PHARMACEUTICS

Time: Three Hours

Maximum marks:75

SECTION-A
Answer any FIVE Questions

5X5=25M

1. Write about environmental control methods in areas of parenterals production.

2. What are SEDDS? Write preparation methods and evaluation of SMEDDS

3. Discuss about validation master plan in brief.

4. Write a short note on statistical designs & its application in formulation.

5. Explain validation parameters according to ICH guidelines.

6. Write a short note on sales forecasting.

7. How to assess mechanism of dissolution rate.

SECTION-B

Answer any FIVE Questions

5X10=50M

8. How to assess the stability of solid drugs against various degradation mechanisms.

9. Discuss the formulation of small volume parenterals and processing of parenterals.

10. Explain in detail about concept and parameters of optimization techniques used in pharmaceutical formulations.

11. Write a short note on

    a) DQ,IQ,OQ and PQ

    b) Manufacturing process model.

P.T.O

12. Write about

    a)   Various factors to be considered for selection of pharmaceutical factory layout.

    b)   Budget and cost control.

13. Discuss in detail about compaction profile and various instruments used for studying compaction profile.

14. Four machines A,B,C,D are used to produce a certain kind of fabric for surgical dressing. Sample of size 5 with each unit as 100 square meters are selected and number of flows in each 100 square meters are counted with the following result. Find the significant difference in the performance of machines.

A	B	C	D
13	15	14	14
11	11	10	10
10	13	12	15
16	18	13	17
12	12	11	10