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16456(D) - 0 DEC 2016

M. Pharmacy 1st Semester Examination

Pharmaceutical Analysis Formulation Technology

MP-111

Time : 3 Hours **Max. Marks : 90**

The candidates shall limit their answers precisely within the answer-book (40 pages) issued to them and no supplementary/continuation sheet will be issued.

SECTION - A

Answer any one question.

1. (a) Define preformulation? Discuss how preformulation studies play an important role in anticipating formulation problems.

   (b) Briefly explain various techniques available for investigation of the solid state of a drug on excipient. (15+15=30)

2. (a) Explain the formulation strategies used to minimize Capsule shell/fill interaction in a soft gelatine capsule.

   (b) Explain the process of wet granulation and machines involved in it. (15+15=30)

SECTION - B

Answer any three questions.

3. What are documentation requirements under current good manufacturing practices?

4. How stability of solid dosage forms are determined as per ICH guidelines?

5. Define Aerosols. Enlist various components of a aerosol package.

6. How are parenterals sterilized by filtration? (3×10=30)

SECTION - C

Answer any six questions.

7. Differentiate between small volume and large volume parenterals.

8. Differentiate between soft gelatin capsules and hard gelatin capsules.

9. What is the effect on the quality of the product when it is processed aseptically?

10. Write a short note on microbial testing of water.

11. Enlist the excipients used for coating of tablets.

12. Write a short note on stability indicating assay.

13. Importance of Rheology in dosage form design.

14. Colours as raw material are highly regulated, discuss. (6×5=30)