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**M. PHARM**  
**(SEM- I) THEORY EXAMINATION 2017-18**  
**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) What are the objectives of preformulation studies?
- b) Mention the need of formulation optimization.
- c) Define validation.
- d) What do you mean by concurrent validation?
- e) What is the need of user specific requirements during instruments validation?
- f) Define cGMP.
- g) What is the importance of sales forecasting in production management?
- h) What is the effect of friction on tablet compression?
- i) Define level of significance.
- j) Give the formula for calculation of standard deviation.

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

- a) Discuss in detail about various techniques to detect drug-excipients interactions.
- b) Discuss in detail about various steps of equipment validation.
- c) What is production management? Discuss Pharmaceutical production management in detail.

**SECTION C****3. Attempt any seven parts of the following: 7 x 5 = 35**

- a) Describe various theories of emulsification.
- b) Discuss the concept and parameters of formulation Optimization.
- c) Write a note on manufacturing and evaluation of large volume parenteral.
- d) What is factorial design? Explain with suitable example.
- e) What are the ICH guidelines for calibration and validation of equipments?
- f) Discuss total quality management.
- g) Give a brief description of physics of tablet compression.
- h) Discuss various consolidation parameters in brief.
- i) Describe chi-square test with suitable example.