www.FirstRanker.com www.FirstRanker.com First Semester M. Pharm Degree Examination - JAN-2019

[Time: 3 Hours] [Max. Marks: 75]

Pharmaceutical Validation Q.P. CODE: 5113

Your answers should be specific to the questions asked. Draw neat, labeled diagrams wherever necessary.

LONG ESSAY (Answer any Three)

 $3 \times 10 = 30 \text{ Marks}$

- 1. Define validation? Discuss about validation process and validation master plan.
- 2. Discuss briefly about Design qualification? Describe the qualification of FTIR.
- 3. Explain validation of HVAC system, pharmaceutical water system.
- 4. Describe the various phases of drug development and drug approval.

SHORT ESSAY (Answer any Nine)

9 X 5 = 45 Marks

- 5. Explain about qualification of manufacturing equipments.
- 6. Discuss about the qualification of beakers and burette.
- 7. Discuss about requirements of new IND.
- 8. Write a brief note on validation of utility system.
- 9. Discuss about ICH guidelines regarding validation of analytical method.
- 10. Explain about cleaning validation.
- 11. Discuss about regulatory aspects Loan License auditing.
- 12. Explain the qualification of U.V-Visible Spectrophotometer apparatus. ************
- 13. Write calibration procedure for HPTLC.
- 14. Discuss about site acceptance test.