QP CODE: 112329 Reg. No:......

First Semester M.Pharm Degree Regular/Supplementary Examinations November 2021 M.Pharm (Pharmaceutical Analysis)

Paper II: Advanced Pharmaceutical Analysis (MPA 102T)

(Common for 2017 and 2019 Scheme)

Time: 3 Hours Total Marks: 75

- Answer all questions to the point neatly and legibly
 Do not leave any blank pages between answers
 Indicate the question number correctly for the answer in the margin space
- Answer all parts of a single question together Leave sufficient space between answers
- Draw table/diagrams/flow charts wherever necessary

Essays (3x10=30)

- 1. Explain photo stability testing guidelines of pharmaceuticals as per ICH guidelines
- 2. Describe the biological assay of tetanus anti toxin and heparin sodium
- 3. Explain the guidelines for impurity testing of new drug products

Short Notes (9x5=45)

- 4. Limits and analytical procedures for solvents in pharmaceuticals
- 5. Analysis of N and S elements
- 6. Steps involved in stability testing protocols
- 7. Interaction and complexity of phyto-pharmaceuticals
- 8. Principle of immunoassays
- 9. PCR studies for gene regulation
- 10. Biological products stability testing
- 11. Characterization of degradation
- 12. A view on WHO guidelines for stability testing.
