QP CODE: 112329 **Reg. No:……**

First Semester M.Pharm Degree Regular/Supplementary Examinations June 2024
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. Elaborate the classification, analytical procedure and limits of residual solvent impurities.
2. Describe the ICH guidelines for accelerated stability testing of biological products
3. Describe in detail about stability testing of Phytopharmaceuticals

Short Notes **(9x5=45)**

4. The principle and procedure involved in the biological assay of oxytocin.
5. Enumerate the factors influencing stability testing protocols.
6. Summarize PCR studies for gene regulation
7. Classify the impurities of active pharmaceutical ingredients
8. The qualification of degradation products
9. Explain potential source and identification of elemental impurities.
10. Outline the principle and applications of optical immunoassay.
11. Recall the biological test and assay of tetanus anti toxin
12. Draw the decision tree for identification and qualification of degradant product

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