

QP CODE: 214329

Reg. No:.....

**Second Semester M. Pharm Degree Regular/Supplementary Examinations
May 2022**

M.Pharm (Pharmaceutical Analysis)

Paper IV: Herbal and Cosmetic Analysis (MPA 204T)

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. Discuss in brief the AYUSH guidelines for herbal drug standardization.
2. Explain in detail the various quality control tests carried out for skin care products.
3. Explain WHO guidelines for the quality assessment of herbal drugs.

Short Notes

(9x5=45)

4. Differentiate herbal and conventional drugs.
5. Explain in detail the principle and procedure involved in determination of saponification value of oils.
6. Protocol for stability testing of natural products.
7. Types of adulteration/ substitution in herbal drugs.
8. Importance of DNA finger printing in identification of drugs of herbal origin.
9. What are the challenges in monitoring the safety of herbal medicines.
10. Explain bio drug-drug interaction with example.
11. QC tests for skin creams as per BIS standards.
12. Explain the determination of pesticide residues in herbal formulations.
