

QP CODE: 214329

Reg. No:.....

**Second Semester M. Pharm Degree Regular/Supplementary Examinations
February 2021**

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 the herbal drug standardization in accordance with AYUSH and WHO guidelines.
2. Discuss about the bio drug – drug and bio drug –food interactions with suitable examples.
3. Discuss about the regulatory requirements for setting the herbal drug industry in India

Short Notes

(9x5=45)

4. Principle involved in the determination of total fatty matter and total alkalinity in bath soaps.
5. Method of determination of foaming test and eye irritancy test for shampoo.
6. Determination of heavy metals and foreign matter in herbal drugs.
7. Protocol for stability testing of natural products.
8. Adulterant screening using modern analytical instruments
9. Causes and measures of adulteration of herbal drugs.
10. DNA finger printing techniques in identification of natural drugs.
11. Quality control analysis of skin care products.
12. Standardization of baby talcum powder
