

QP CODE: 214329

Reg. No:.....

**Second Semester M. Pharm Degree Regular/Supplementary Examinations
November 2024**

M.Pharm (Pharmaceutical Analysis)

**Paper IV: Herbal and Cosmetic Analysis (MPA 204T)
(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. Discuss in detail the types of adulterants and various adulterant screening methods using modern analytical instruments.
2. Explain the principle and procedure involved in the determination of iodine value and Rancidity of oils.
3. Explain in detail the WHO and AYUSH guidelines for safety monitoring of herbal medicines.

Short Notes

(9x5=45)

4. Explain regulation and dispensing of herbal drugs.
5. Discuss in brief quality control test for toothpaste.
6. Spontaneous reporting schemes available for bio drug interactions and adverse effects.
7. Importance of efficacy studies for herbal medicines.
8. Enlist the various quality control tests carried out for lipsticks as per BIS standards. Explain any two.
9. Explain Indian patent law governing herbal drugs and natural products.
10. Explain in brief the general procedure for identification of heavy metals in herbal drugs.
11. Discuss in brief the effect of herbal medicine on clinical laboratory testing.
12. Principle and procedure involved in analysis of volatile matter and heavy metals in cosmetic raw materials.
