

QP CODE: 214329

Reg. No:.....

**Second Semester M. Pharm Degree Regular/Supplementary Examinations
October 2023**

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 adulteration and substitution of herbal drugs with examples.
2. Explain in detail about the principle and procedure involved in the determination of acid value and saponification value.
3. Explain in detail the study of herbal drugs in Ayurveda and Unani pharmacopoeia

Short Notes

(9x5=45)

4. Why DNA finger printing is important in identification of drugs from natural origin. Explain.
5. Discuss in brief the regulatory requirements for setting up a new herbal drug industry.
6. The screening of adulterants in herbal drugs by modern analytical instruments.
7. Explain in brief the WHO guideline requirements for assessing the quality of herbal drugs.
8. Enlist the various quality control tests carried out for hair oils as per BIS standards. Explain any two.
9. Bio drug-drug interaction studies with suitable examples.
10. Explain in brief the general procedure for the identification of photo toxins and microbial contaminants in herbal drugs.
11. Discuss in brief the various quality control tests carried out for tooth paste as per Indian standard specifications.
12. Rancidity and moisture content test for the raw materials used in cosmetics.
