

**QP CODE: 212330**

**Reg. No:.....**

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

**M.Pharm (Pharmacognosy)**

**Paper II: Advanced Pharmacognosy II (MPG 202T)  
(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. Describe the in vivo evaluation of herbals for hepatoprotective activity.
2. Describe in detail about DNA finger printing techniques in the identification of plants.
3. Discuss about the analytical profiles of *Curcuma longa* and *Andrographis paniculata*.

**Short Notes**

**(9x5=45)**

4. Acute toxicity studies as per OECD guidelines.
5. Adulteration and substitution of herbal drugs.
6. Reverse pharmacology.
7. Pesticide residue in herbals.
8. In vitro evaluation methods for anti-cancer drugs.
9. Detection of heavy metals in the drugs of natural origin.
10. Pharmacodynamic and pharmacokinetic issues of natural products.
11. Impact of ethnobotany in traditional system of medicine.
12. Microbial contamination in herbs.

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