

Question Paper

Exam Date & Time: 18-May-2023 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.

Herbal and Cosmetic Analysis [PCH-MPA204T -S3]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

Answer the following (10 marks x 5 = 50 marks)

- 1) What are the main sources of adulteration of herbal drugs and Discuss in detail modern analytical methods used for adulterant screening. (10)
- 2) Explain the regulatory requirements for setting herbal drug industry. (10)
- 3) Explain the challenges involved in monitoring the safety of herbal medicines. (10)
- 4) What are the general methods available for the analysis of quality of raw materials? Give the working principle and applications of ICP-MS. (10)
- 5) Explain about spontaneous reporting schemes for bio drug adverse reactions and discuss about AYUSH guidelines for safety monitoring of natural medicine. (10)

SECTION - B

Answer all the questions.

Answer the following (5 marks x 5 = 25 marks)

- 6) Discuss the pharmacodynamic issues of herbal drugs. (5)
- 7) Give the principle involved in Ayurveda and Naturopathy medicine. (5)
- 8) With an example discuss the comparative monograph analysis of British herbal pharmacopoeia and Indian herbal pharmacopoeia. (5)
- 9) Explain about bio drug-drug interactions. (5)
- 10) Explain the protocol for stability testing of natural products . (5)

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