

Exam Date & Time: 31-Mar-2021 (01:30 PM - 04:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

Industrial Pharmacognostical Technology [PCO-MPG104T - S2]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

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

- 1) Define and discuss on various aspects of patenting of natural products. (10)
- 2) Give the plant design and layout for the manufacturing of herbal Tablets and Capsules. (10)
- 3) Discuss ASEAN guidelines to carry out the stability studies for natural products. (10)
- 4) Give the detailed procedure for the determination of Bitterness value and Foaming index for the evaluation of crude drugs as per WHO guidelines. (10)
- 5) Give the various types of audits. Discuss the steps for certification and maintaining the Certification of ISO 9000. Enlist the clauses ISO 9001:2008. (10)

SECTION - B

Answer all the questions.

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

- 6) Give a detailed account of monographs. Briefly explain the importance of general contents of the monograph. (5)
- 7) Discuss the patent case of turmeric with respect to its problems encountered and how it got solved? (5)
- 8) Define scale-up technique with its suitable examples for herbal extracts. (5)
- 9) Enlist the challenges that are faced to become a successful entrepreneur. (5)
- 10) Briefly explain the aspect of Human pharmacology and Post marketing trials in clinical trials. (5)

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