

Question Paper

Exam Date & Time: 04-Dec-2017 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

**MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES
END SEMESTER THEORY EXAMINATIONS - NOVEMBER 2017**

PROGRAM : MPHARM SEMESTER I

DATE : 04-12-2017

TIME : 2:00PM - 5:00PM

Industrial Pharmacognostical Technology [PCO-MPG104T]

Marks: 50

Duration: 180 mins.

Answer all the questions.

Answer the following (5 marks x 8 = 40 marks)

- 1) Enlist the various types of audits. Discuss the steps for certification and maintaining the Certification of ISO 9000. (5)
- 2) Briefly discuss the GMP for herbal medicines as per WHO guidelines. (5)
- 3) Explain the challenges for Entrepreneurship. (5)
- 4) Define and discuss the general contents of a monograph. (5)
- 5) Discuss the plant design, layout and construction for the manufacturing of Liquid Orals. (5)
- 6) Write a note on GLP for Herbal Medicines. (5)
- 7) Discuss the various phases of Clinical Trials for Herbal Medicines. (5)
- 8) Define patent and describe briefly the procedures for filing a patent in India. (5)

Answer the following with specific answers (2 marks x 5 = 10 marks)

- 9) Revocation of patent (2)
 - A) (2)
 - B) Swelling index and its significance (2)
 - C) Flow chart for manufacturing of Dry Extract (2)
 - D) (2)

Criteria for the selection of a Project

E)

Conditions for Accelerated Stability Studies

(2)

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