

Date & Time: 07-Dec-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.
Specialization: Pharmacognosy
Date: 07-12-2018

Industrial Pharmacognostical Technology [PCO-MPG104T]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

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

- 1) Define TQM. Briefly discuss the Deming's 14 principles of TQM. (10)
- 2) Discuss the plant design, layout and construction for the manufacturing of herbal tablets and capsules. (10)
- 3) Discuss in detail the various steps involved in stability studies that are carried out for herbal drugs. (10)
- 4) Define patent. Give the criteria and various steps involved in filing a patent in India. (10)
- 5) Discuss in detail the evaluation of bitterness value and swelling index of a crude drug as per WHO guidelines. (10)

SECTION - B

Answer all the questions.

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

- 6) Four categories herbal medicines and specific requirements for assessment of its safety as per WHO (5)
- 7) Definition, general content, purpose and uses of Monograph (5)
- 8) Manufacturing of standardized herbal extracts (5)
- 9) Criteria for the selection of a project and Project report (5)
- 10) Phase I and Phase II Clinical trials for herbal products (5)

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