

Question Paper

Exam Date & Time: 02-Dec-2019 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Pharmacognosy and Phytochemistry II [PCO-BP504T]

Marks: 75

Duration: 180 mins.

II Long Answers

Answer all the questions.

- 1) A. What are Saponins? Give their properties and describe their chemistry and classification with examples (1+1+3) (10)
B. Give the source, family, active constituents and uses of Liquorice and Dioscorea
- 2) Briefly describe the various spectroscopic methods employed for the identification of the phytoconstituents (10)

III Short Answers

Answer all the questions.

- 1) Explain the industrial production, estimation and utilization of Artemisinin (5)
- 2) Describe the Precursor product sequence and Competitive feeding (5)
- 3) Give the biological source and utilization of a) Forskolin b) Atropine (5)
- 4) Give the biological source, method of preparation and chemical tests of Aloes (1+2+2) (5)
- 5) With biological source, explain the isolation, identification and HPTLC analysis of Glycyrrhetic acid (5)
- 6) With the help of neat labelled diagram explain the column chromatography for separation of phytoconstituents. (5)
- 7) What are volatile oils? Describe the enfleurage, ecuelle and SCF extraction methods (1+1+1+2) (5)

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Question Paper

Exam Date & Time: 04 Dec 2019 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Pharmaceutical Jurisprudence [PMA-BP505T - S2]

Marks: 75

Duration: 180 mins.

II Long Answers

Answer all the questions.

- 1) a) Write the procedure for granting approval to the course of study and examination in pharmacy by PCI. Why PCI approval is necessary for an institution offering pharmacy course? (10)
b) State the offences and penalties in relation to Poppy Straw, Cannabis Plant and Cannabis prescribed under The Narcotic Drugs and Psychotropic Substances Act. What is the purpose of Narcotic Drugs and Psychotropic Substances Consultative Council?
- 2) What is Manufacturing and Loan license? Explain role of Good Manufacturing Practices in pharmaceutical industry as per Drug and Cosmetics Act. Why India is favourable destination for many pharmaceutical companies. Justify. (2+5+3=10marks) (10)

III Short Answers

Answer all the questions.

- 1) Enlist the types of price calculation as per DPCO 2013 and describe calculation of ceiling price of scheduled formulation. Add a note on issues propped up immediately after DPCO 2013 came in to force. (5)
- 2) What types and classes of advertisements are exempted under the Drugs and Magic Remedies Act? What do you mean by Non-Bonded manufactory? (5)
- 3) Write short notes on Health Survey and Development Committee. What ethics a pharmacist should follow with respect to his profession. (5)
- 4) Mention the conditions for Termination of Pregnancy as per MTP Act? Mention the functions of CDSCO. (5)
- 5) What are qualification and duties/functions of Govt. Analyst? (5)
- 6) Explain various phases of Clinical Trials. (5)
- 7) Define Drug, Cosmetic, New drug, Repacking licenses and Misbranded drug. (5)

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