

Question Paper

Exam Date & Time: 02-May-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.
MPharm - PHARMACOGNOSY Specialization
MPharm Semester II- End-Semester Examination May 2019
Date : 02/05/2019

Medicinal Plant Biotechnology [PCO-MPG201T]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

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

- 1) Write a note on Historical perspective and development of plant biotechnology. Add a note on steps involved in protein synthesis. (10)
- 2) What is Immobilization? Discuss various techniques of Immobilization with their applications (10)
- 3) Explain various techniques of Protoplast fusion. Add a note on its practical applications (10)
- 4) Explain callus and suspension culture with its advantages and disadvantages. (10)
- 5) Give a detailed account of pilot and large scale bioreactors used in culture of plant cells. (10)

SECTION - B

Answer all the questions.

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

- 6) What is Biotransformation? Explain the procedure for carrying out Biotransformation (5)
- 7) What is Synthetic seed? Give its advantages and disadvantages. (5)
- 8) Give the source, method of preparation and uses of Urokinase and Diastase. (5)
- 9) Write a note on selection of explant and surface sterilization in PTC (5)
- 10) Explain various factors affecting yield and viability of Protoplast. (5)

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Question Paper

Exam Date & Time: 04-May-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

MPharm - PHARMACOGNOSY Specialization

MPharm Semester 2-End-Semester Examination - May 2019

Date : 04/05/2019

Advanced Pharmacognosy II [PCO-MPG202T]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

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

- 1) Briefly describe the efficacy of herbal medicine with an example. (10)
- 2) Describe the outcomes, role of ethnobotanists in herbal medicine. (10)
Add a note on comprehensive bioprospecting policy.
- 3) What are the common diseases/disorders that induce liver damage? Briefly explain the in vitro and in vivo methods for evaluation of natural drugs for the same (10)
- 4) Give the analytical profiles of Amla and Psoralea (10)
- 5) How do you determine foreign organic matter, and pesticide residues in herbs and their formulations? (10)

SECTION - B

Answer all the questions.

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

- 6) Write a note on pharmacodynamic interactions of herbal drugs with an example. (5)
- 7) Briefly describe the reverse pharmacology approach in India (5)
- 8) Describe any two methods for in vivo evaluation of anticancer agents (5)
- 9) What are diuretics? Give any two methods for the screening of diuretic activity. (5)
- 10) Give an overview of DNA finger printing and their application in medicinal plants (5)

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Question Paper

Exam Date & Time: 06-May-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Manipal Academy of Higher Education, Manipal MPharm Theory End-Semester Examinations.
MPharm - Pharmacognosy
MPharm Semester II- End-Semester Examination May 2019
Date : 06/05/2019

Indian Systems of Medicine [PCO-MPG203T]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

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

- 1) Give a detailed account of GMP of Indian Systems of Medicine. (10)
- 2) Discuss and elaborate the basic principle involved in Ayurveda (10)
- 3) What is TKDL? Give its importance. What steps are taken by the Government for the protection of traditional knowledge? (10)
- 4) Give the basic principle involved in Naturopathy. Discuss treatment modality of Naturopathy. (10)
- 5) Discuss briefly the following preparations (10)
 - a) Bhasma
 - b) Arista and Asava

SECTION - B

Answer all the questions.

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

- 6) GLP of herbal industry (5)
- 7) CCRU and its objectives (5)
- 8) Standardization of a Unani preparation (5)
- 9) Yoga and its benefits (5)
- 10) Aromatherapy formulations and its importance (5)

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Question Paper

Exam Date & Time: 08-May-2019 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

MPharm - PHARMACOGNOSY Specialization

MPharm Semester 2-End-Semester Examination - May 2019

Date : 08/05/2019

Herbal Cosmetics [PCO-MPG204T]

Marks: 75

Duration: 180 mins.

SECTION - A

Answer all the questions.

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

- 1) With the help of a neat labelled diagram, briefly describe the physiology of human nail. Add a note on different nail care products. (10)
- 2) Give a detailed account of offences and penalties in relation to cosmetics. Add a note on import and export of herbal cosmetics. (10)
- 3) Write the formula, procedure and uses of ANY TWO herbal cosmetic preparations. (10)
- 4) Describe the following quality control studies for cosmetic preparations a) skin hydration studies b) Eye Irritation test for shampoo (10)
- 5) With ideal characters, write a note on hair colorants with one example. Add a note on mechanism of hair dye. (10)

SECTION - B

Answer all the questions.

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

- 6) Moisturizing and foundation creams with an example for each (5)
- 7) Mouth wash preparations with an example (5)
- 8) Regulatory provisions in relation to manufacture of herbal cosmetics (5)
- 9) Compatibility studies for ingredients in cosmetics (5)
- 10) Importance of GC and HPLC/HPTLC in analysis of cosmetics (5)

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