Exam Date & Time: 03-May-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES END SEMESTER THEORY EXAMINATIONS- MAY 2018 PROGRAM: MPHARM SEMESTER 2 (PHARMACOGNOSY)

DATE: 03/05/2018

TIME: 2:00 PM - 5:00 PM

Medicinal Plant Biotechnology [PCO-MPG201T]

Duration: 180 mins. Marks: 50 a Answer all the questions. Answer the following (5 marks x = 40 marks) Explain various techniques of Protoplast fusion. (5) Write a note on Temperature, pH of medium, Light and Oxygen affecting production 2) (5)of secondary metabolites. Explain the following 3) a) Vectors and its properties (5)b) Restriction enzymes What is Organogenesis? Write a note on direct and indirect Organogenesis. 4) (5)Write a note on various classes of compounds involved in Biotransformation. 5) (5)Give an account on synthetic seed. (5)Discuss briefly various types of bioreactors. 7) (5)Explain direct methods of gene transfer. 8) (5)b Answer all the questions. Answer the following with specific answers (2 marks x = 10 marks) Define explant. How do you sterilize explant in PTC? 9) (2)

n Date & Time: 05-May-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES END SEMESTER THEORY EXAMINATIONS- MAY 2018 PROGRAM: MPHARM SEMESTER 2 (PHARMACOGNOSY)

DATE: 05/05/2018

TIME: 2:00 PM - 5:00 PM

Advanced Pharmacognosy II [PCO-MPG202T]

Marks: 50

Marks: 50 Answer all the questions. Answer the following (5 marks x = 40 marks) What does validation of herbal therapy mean? Explain with suitable examples (5)1) Write an essay on determination of microbial contamination in herbal raw materials 2) (5)and give limits for certain common organisms Give an account of impact of ethnobotany on modern medicine. (5) 3) Discuss the analytical profile of Coleus (5)4) Write a note on bio-prospecting tools for drug discovery. (5)5) Define and classify diabetes? Give any two models for screening of antidiabetic 6) (5) agents Give an account of causes and measures of adulteration. (5)7) Give the in vitro tests for the evaluation of anticancer drugs (5)8) b Answer all the questions. Answer the following with specific answers (2 marks x = 10 marks) Define pharmacodynamics and pharmacokinetics 9) (2) A)

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-MPG202T

- B) Define and explain foreign matter
- C) Define drug discovery and drug development
- D) Give botanical source, chemical constituents and uses of Shallaki
- E) Define acute and sub-acute toxicity as per OECD guidelines

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



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES END SEMESTER THEORY EXAMINATIONS- MAY 2018 PROGRAM: MPHARM SEMESTER 2 (PHARMACOGNOSY)

DATE: 07/05/2018 TIME: 2:00 PM - 5:00 PM

Indian Systems of Medicine [PCO-MPG203T]

Indian systems of Medicine [1 CO-Mi G2031]

Marks: 50 Duration: 180 mins.

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Answer a	all the questions.	
Answer t	the following (5 marks $x = 40$ marks)	
1)	Describe the standardization methodology of Ayurvedic preparations with a suitable example.	(5)
2)	Give the protocol for stability studies of ISM formulations.	(5)
3)	Elaborate on CCRH with its objectives and areas of research.	(5)
4)	Discuss on Geographical indication bill with suitable examples in India.	(5)
5)	Enlist different essential constituents of the body. Explain the theory of humours and faculty of powers according to Unani system of medicine.	(5)
6)	What is Schedule T? Elaborate on its requirements.	(5)
7)	Define Naturopathy and list out its basic principles. Discuss briefly any three principles	(5)
8)	Give an account of various Asanas.	(5)
	b	
Answer a	ll the questions.	
Answer th	he following with specific answers (2 marks $x = 10$ marks)	
9)	Preparation of churna	
		(2)

PCO-MPG203T

- B) Storage conditions for accelerated stability studies of ISM formulations
- C) Homoeopathic Pathogenetic Trials
- D) Complaints and their handling in GMP
- E) GAPs foster

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m Date & Time: 09-May-2018 (02:00 PM - 05:00 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES END SEMESTER THEORY EXAMINATIONS- MAY 2018 PROGRAM: MPHARM SEMESTER 2 (PHARMACOGNOSY)

DATE: 09/05/2018 TIME: 2:00 PM - 5:00 PM

Herbal Cosmetics [PCO-MPG204T]

Marks: 50 Duration: 180 mins.

Answer all the questions.

Answer the	e following (5 marks x 8 = 40 marks)	
1)	With help of a neat labelled diagram, briefly describe the physiology of skin.	(5)
2)	Classify different types of hair growth formulations. Elaborate on hair conditioners and hair colorants.	(5)
3)	Describe the following quality control studies for cosmetic preparations a) skin hydration studies b) Eye Irritation test for shampoo	(5)
4)	Briefly describe the skin tonics with an example.	(5)
5)	Discuss Good Manufacturing Practices in Cosmetic preparations	(5)
6)	Define and classify herbal cosmetics. Add a note on its advantages over synthetics	(5)
7)	What is the source of fixed and mineral oils? Give their role in cosmetics.	(5)
8)	Give a detailed account of preservatives and surfactants used in cosmetics.	(5)

b

Answer all the questions.

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

9) Define hair oils. Mention their ingredients

(2)

A)

- B) Why Patch test is very significant for bleaches?
- C) Source and uses of Henna and Saffron
- D) Economic status of Herbal Cosmetics in India
- E) Carcinogenicity test for Cosmetics

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