Question Paper

Exam Date & Time: 29-Nov-2017 (02:00 PM - 05:00 PM)



MANIPAL UNIVERSITY

MANIPAL COLLEGE OF PHARMACEUTICAL SCIENCES END SEMESTER THEORY EXAMINATIONS - NOVEMBER 2017 PROGRAM: MPHARM SEMESTER 1

DATE: 29/11/2017 TIME: 2:00PM - 5:00PM

Advanced Pharmacognosy I [PCO-MPG102T]

Marks: 50 Duration: 180 mins.

Answer all the questions. Answer the following (5 marks x 8 = 40 marks) 1) Give a detailed account of Traditional plant growth regulators (5)2) Enlist the marine anti-inflammatory drugs and their source. Add a (5) note on marine sponges 3) Discuss on the various methods of disease prevention (5)4) Give the source and structure of any five marine cardio vascular (5)drugs. 5) Give an account of Fat soluble vitamins (5)Discuss briefly functional foods, PUFA, probiotics, prebiotics and 6) (5)dietary fibers with examples 7) Give the chemistry, isolation and uses of Limonoids (5)Define minerals as dietary supplement. Add a note on major and 8) (5) trace minerals as Nutraceuticals Answer the following with specific answers (2 marks x = 10 marks) 9) Mention the functions of National Pharmacovigilance Centre (2) A) B) Define Herbal medicines as per the WHO Glossary (2)C) What is Adverse reaction as per Glossary of WHO (2)D) Define Pharmacovigilance and enlist its goals (2) E) Comment on Green tea as nutraceutical (2)

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kam Date & Time: 01-Dec-2017 (02:00 PM - 05:00 PM)



MANIPAL UNIVERSITY

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

PROGRAM: MPHARM SEMESTER 1 DATE: 01/12/2017

TIME: 2:00PM - 5:00PM

Phytochemistry [PCO-MPG103T]

Marks: 50

Answer all the questions. Answer the following (5 marks \times 8 = 40 marks) Describe Isoprenoid pathway in the biosynthesis of secondary (5) 1) plant metabolites What is a 'Target'? Discuss identification and validation of a target. (5) 2) Write a note on the development of an assay for the evaluation of the identified target. (5) Give the spectral characteristics of Menthol 3) (5) Give a detail account of isolation of Strychnine 4) (5) Elaborate on Percolation method of extraction 5) Citing an example of alkaloid describe structural elucidation by (5)6) chemical methods. (5) What is a study protocol? Discuss its components in detail 7) (5) Give the spectral characteristics of Luteolin 8) Answer the following with specific answers (2 marks x = 10 marks) Write the principles involved in liquid chromatography (2)9) A) (2)Write a note on the sample injection port of GC B) What are the different types of nitrogen present in organic (2)C) compounds? Give one example for each (2) Write a short note on GM counter D) (2) Write a note on Advanced Phytonics method of extraction E)

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



MANIPAL UNIVERSITY

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]

Duration: 180 mins. Marks: 50

Answer all the questions. Answer the following (5 marks x 8 = 40 marks) Enlist the various types of audits. Discuss the steps for certification (5) and maintaining the Certification of ISO 9000. 1) (5)Briefly discuss the GMP for herbal medicines as per WHO 2) guidelines. (5)Explain the challenges for Entrepreneurship. (5)Define and discuss the general contents of a monograph. 3) (5) Discuss the plant design, layout and construction for the 4) 5) manufacturing of Liquid Orals. (5) Write a note on GLP for Herbal Medicines. Discuss the various phases of Clinical Trials for Herbal Medicines. (5) 6) Define patent and describe briefly the procedures for filing a (5)7) 8) patent in India. Answer the following with specific answers (2 marks x = 10 marks) (2) Revocation of patent 9) (2) A) Swelling index and its significance (2) B) Flow chart for manufacturing of Dry Extract (2) C) Criteria for the selection of a Project (2)D) Conditions for Accelerated Stability Studies E)