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.

Specialization: Industrial Pharmacy

MPharm Semester II- End Semester Examination May 2019

Date:02/05/19 Scale-up and Technology Transfer [PCE-MIP202T] Duration: 180 mins. Marks: 75 **SECTION - A** Answer all the questions. Answer the following (10 marks x 5 = 50 marks) Discuss on raw material selection, space requirement, personal (10)requirement and review of formula during scale up stage of formulations. (10)Discuss on different stages of process validation. 2) Explain the vendor development procedure for a new Active (10)3) Pharmaceutical Ingredient as per GMP system. What is User Requirement Specification? Discuss the components (10)4) of URS. (10)Explain Installation Qualification with an example. 5) **SECTION - B** Answer all the questions. Answer the following (5 marks x = 25 marks) Explain the primary treatment of effluent by coagulation method. Discuss on causes of fire hazards in pharma industry. (5) 7) Define following terms (i) Pilot plant (ii) Biological oxygen demand (5) 8) (iii) Effluent (iv)Process validation (v) Chemical hazards (5) Write a note on Factory acceptance testing (FAT). 9) Give any five importance of primary protective equipment (PPE). (5) 10)

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Paper

rime: 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.

Specialization: Industrial Pharmacy

MPharm Semester II - End Semester Examination May 2019

Date: 6/05/2019

Pharmaceutical Production Technology [PCE-MIP203T]

Marks: 75

SECTION - A Answer all the questions.

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

1) Explain the principle and construction of Wurster Process with the (10) help of diagram. (2 Marks + 8 Marks)

(i) Explain the construction and working of rapid mixer granulator. (10)
 (5 Marks)
 (ii) Discuss the coating process using Accela - Cota. (5 Marks)

Classify spray dryers. Explain any THREE types of atomization (10) techniques used in spray dryers. (4 Marks + 6 Marks)

Explain the sources of contamination in parenteral production with (10) their preventive methods.

Explain rotary die process for manufacture of soft gelatin (10) capsules.

SECTION - B

Answer all the questions.

9)

Answer the following (5 marks \times 5 = 25 marks)

6) Discuss the large-scale emulsification of immiscible liquid systems. (5)

7) Give layout of parenteral production unit. (5)

8) Write a note on glass as a packaging material. (5)

Enlist different grades of water. Explain two of them. (5)

Discuss the mechanism of air filtration systems. (5)

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

Answ Key Colts MPD

(10)



MANIPAL ACADEMY OF HIGHER EDUCATION

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

MPharm Industrial Pharmacy Specialization

MPharm Semester II - End Semester Examination, May 2019 Exam Date:08-05-2019

Entrepreneurship Management [PMA-MIP204T]

Marks: 75

SECTION - A

Duration: 180 mins.

Answer all the questions. Answer the following (10 marks x 5 = 50 marks)

Allswel the I	ollowing (10 marks x 5 = 50 marks)	
1)	Discuss in brief any 10 characteristics of an entrepreneur.	(10)

2)	Discuss types of enterprises. According to you which one is more	(10)

Discuss types of effect prises. According to you willer one to
apt for a start-up enterprise and why?

3)	Discuss strategies adopted by companies for their future growth.	(10)
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4)	Discuss the importance of feedback, monitoring and evaluation for (10)
	a success of an enterprise.

Write in detail the resource mobilization for an enterprise.	nterprise.
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SECTION - B

Answer all the questions.

Answer the following (5 marks \times 5 = 25 marks)
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6)	List and discuss the factors influencing industrial location.	(5)
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7)	What is SWOT analysis? Discuss how it plays an important role in (5))
	evaluating an enterprise	

8)	What is profitability analysis and controlling of an enterprise?	(5)
	Discuss.	

9)	Discuss motivating factors. Add a note on any one model of	(5)
	motivation.	

10)	Define Entrepreneurship. Add a note on brief history of	(5)
	Entrepreneurship.	

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