Question Paper

Exam Date & Time: 26-Nov-2019 (09:30 AM - 12:30 PM)



MANIPAL ACADEMY OF HIGHER EDUCATION

Pharmaceutical Microbiology [PBT-BP303T]

	Marinacedtical Micropiology [PB1-BP3031]	
Marks: 75	Duratio	
the questions.	II Long Answers Answer all	
1)	What is saturated steam? Discuss the properties of saturated steam that makes it an ideal sterilizing agent.	(10)
2)	Describe the isolation, preservation and maintenance of a rare form of microorganism	
the questions.	III Short Answers Answer all	(10)
1)	Enlist the factors influencing disinfection process and explain the effect of surfactants on activity of disinfectant	'S
2)	Explain any five properties of an ideal disinfectant	(5)
3)	Define staining. Explain acid fast staining	(5)
4)	Explain the two level factorial assay by cup plate method of an antibiotic	(5)
5)	What is an aseptic room? Explain the design of such a room	(5)
6)	Write a note on assessment of microbial contamination and spoilage of Pharmaceutical products	(5)
7)	Describe the principle and application of electron microscopy	(5)
	End	(5)

Question Paper

Exam Date & Time: 28-Nov-2019 (09:30 AM - 12:30 PM)

MANIPAL ACADEMY OF HIGHER EDUCATION

Physical Pharmaceutics I [PCE-BP302T - S3]

Marks: 75 Duration: 180 mins.

II Long Answers

Answer	r all the questions.	
1)	Define and derive Nerns't distribution law.	(4.0)
2)	Write short notes on dipole moment and aerosols.	(10)
Answer	all the questions.	(10)
1)	Explain the factors affecting surface tension.	(5)
2)	Explain the principle of surface tension by drop weight method.	(5)
3)	Discuss the kinetics of protein binding using Klotz double reciprocal plot.	(5)
4)	Write a note on the applications of chelates.	(5)
5)	What are eutectic mixtures? How to dispense them?	(5)
6)	Write short note on glass electrode used in pH meter with neat diagram.	(5)
7)	Write short notes on buffers in pharmaceutical preparations.	(5)
	pparations.	(5)

Question Paper

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



MANIPAL ACADEMY OF HIGHER EDUCATION

Pharmaceutical Organic Chemistry II [PCH-BP301T - S2]

Marks: 75

Duration: 180 mins.

II Long Answers

Answer all the questions.

- Classify substituent groups and their effects on reactivity in electrophilic aromatic substitution. Give the structure and uses of saccharin, DDT and chloramine.

 Define Ester value and Acend value. Write the principle and the structure and acend value.
- Define Ester value and Acetyl value. Write the principle and the method involved in the determination (10) of iodine value with equations.

III Short Answers

Answer all the questions.

Write one method of synthesis of naphthalene and give three important reactions of diphenylmethane (5) 1) Explain angle strain and discuss Coulson and Moffitts modification 2) (5)3) What are the limitations of Baeyer's strain theory. Write two important reactions of cyclobutane. (5) 4) Give the structure and uses of morphine and menadione (5)Discuss the effect of substituents on the acidity of Phenol. Give the structure and uses of cresol and 5) (5) 6) Explain the structure of benzene with neat diagrams (5) 7) What are the synthetic uses of aryl diazonium salts? Explain (5)

----End----