

Code No: B132104 (R13) (SET - 1)

II B. Pharmacy I Semester Supplementary Examinations, Oct/Nov - 2017 PHARMACEUTICAL MICROBIOLOGY

Time: 3 hours

Note: 1. Question Paper consists of two parts (Part-A and Part-B)

2. Answering the question in **Part-A** is Compulsory3. Answer any **THREE** Questions from **Part-B**

PART -A			
1.	a)	Write a note on contributions of Robert Koch.	(4M)
	b)	Describe the preparation of nutrient agar bacterial cultivation	(3M)
	c)	Describe the method of autoclaving and various types of substances that can be Sterilized.	(3M)
	d)	Describe the principle and significance of 'Sterility Test'.	(4M)
	e)	Write about the etiology, sources, diagnosis of typhoid disease.	(4M)
	f)	What is mutation? Write about different mutagens.	(4M)
PART -B			
2.	a)	Enumerate various methods for evaluation of bactericidal agents. Explain the procedure for determination of Phenol-coefficient.	(10M)
	b)	Write a note on Sterilization Indicators.	(6M)
3.	a)	With the help of a neat labeled diagram, describe the design and operation of a 'Hot air Oven'.	(8M)
	b)	Differentiate bacteria from molds with respect to their morphology and Laboratory cultivation.	(8M)
4.	a)	Explain the term immunity; classify types of immunity with examples.	(8M)
	b)	Discuss about the factors that affect the growth of bacteria.	(8M)
5.	a)	Write a note on official methods of Sterility testing of pharmaceuticals.	(10M)
	b)	What are the measures to be taken to maintain a septic environment in the microbiology Lab?	(6M)
6.	a)	Write the principles and methods involved in microbiological assay of Antibiotics.	(8M)
	b)	Write the principles and methods involved in assay of amino acids.	(8M)
7.	a)	Describe the structures of following organnels and discuss their functions. (a) Gram-ve cell wall. (b) Bacterial endospore. (c) Flagella.	(9M)
	b)	With the help of a neat diagram, describe the structure of a typical bacterial cell.	(7M)