## THE OPEN UNIVERSITY OF SRI LANKA FACULTY OF HEALTH SCIENCES DEPARTMENT OF PHARMACY THE ACADEMIC YEAR 2020/2021 – SEMESTER II



BACHELOR OF PHARMACY HONOURS

FMU3204- PHARMACEUTICAL MICROBIOLOGY I - LEVEL 3

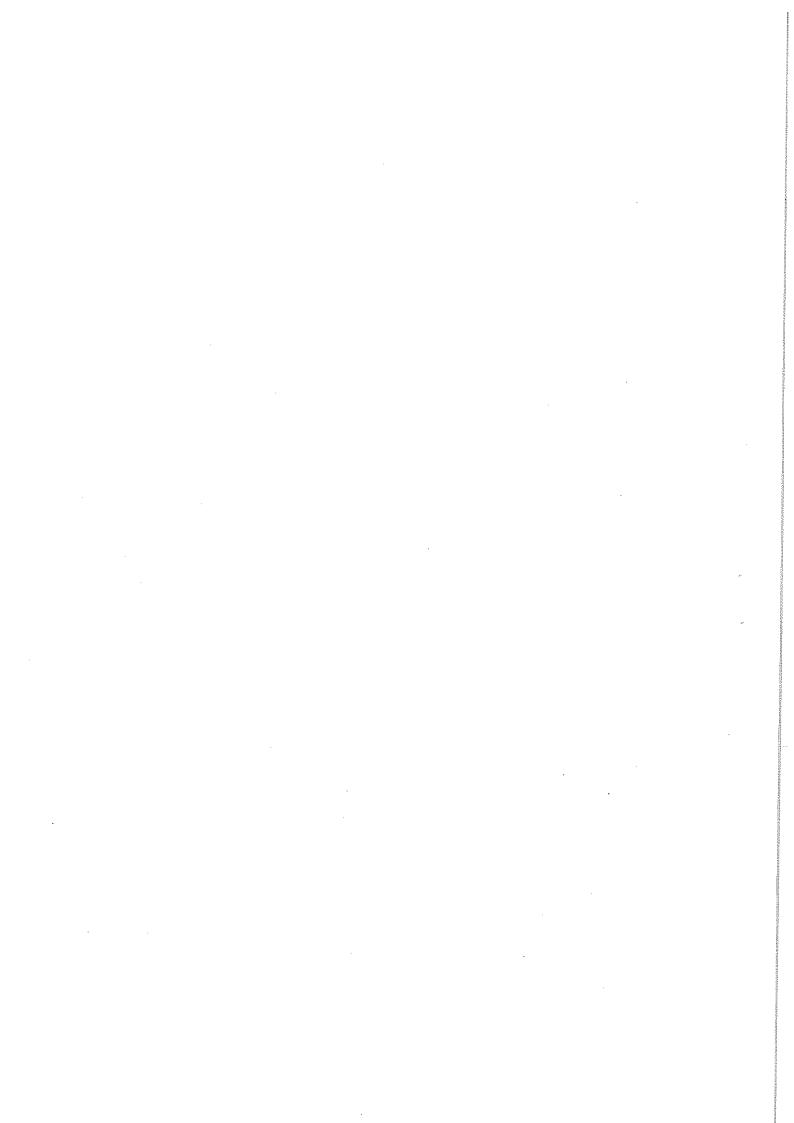
FINAL EXAMINATION

DUB ATION: TWO (02) HOURS

DURATION, 1 WO (02) HOURS			
DATE: 30 <sup>TH</sup> SEPTEMBER 2022	TIME: 9.30 A.N	0 A.M 11.30 A.M.	
Index No			
1. 1.1. List three (03) physical methods used to control mic	robial growth	(03 marks)	
II		,	
1.2 State two (02) commonly used preservatives in pharm		(02 marks)	
I			
1.3. Write the mechanism of action of the antimicrobial l	listed.	(05 marks)	
I. Penicillin			
IV. Rifampin			

V.

Trimethoprim .....



	·	Index No
2. 2.1. Defii	ne the term "Disinfection"?	(03 marks)
		(05 Hiding)
******		
2.2. Defi	ne the term "Antiseptic"?	(03 marks)
2.3. List	four (04) chemical compounds used as disinfectants	6. (04 marks)
I.		
II.		
III.		
111.	•	
F X /		

Index No..... Part C - Structured Essay Questions (SEQ) - 60 Marks Answer all questions. 1. 1.1. List the three (03) factors that vary among different antibiotics. (03 marks) 1.2. What is a "Broad Spectrum Antibiotic" (05 marks) 1.3. Briefly explain "Acquired Resistance" (05 marks) 1.4 Write the two (02) situations that antibiotic assays are being used. (02 marks) 1.5 What is the principle upon which microbiological assay of antibiotics by agar diffusion method is based? Outline a procedure for such an assay. (15 marks) 2. 2.1. Define microbial growth. (05 marks) 2.2. Briefly explain "Generation time". (05 marks) 2.3. Draw the bacterial growth curve and label the main four (04) phases. (08 marks) 2.4. Briefly explain the four (04) phases mentioned in above 2.3 (12 marks)