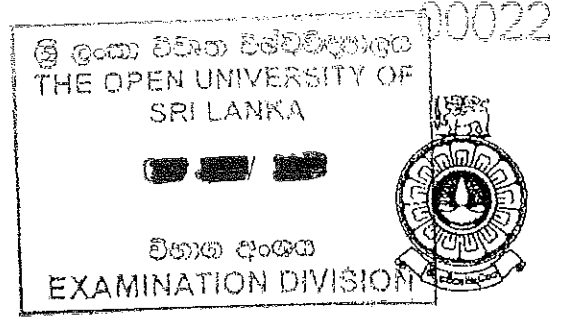


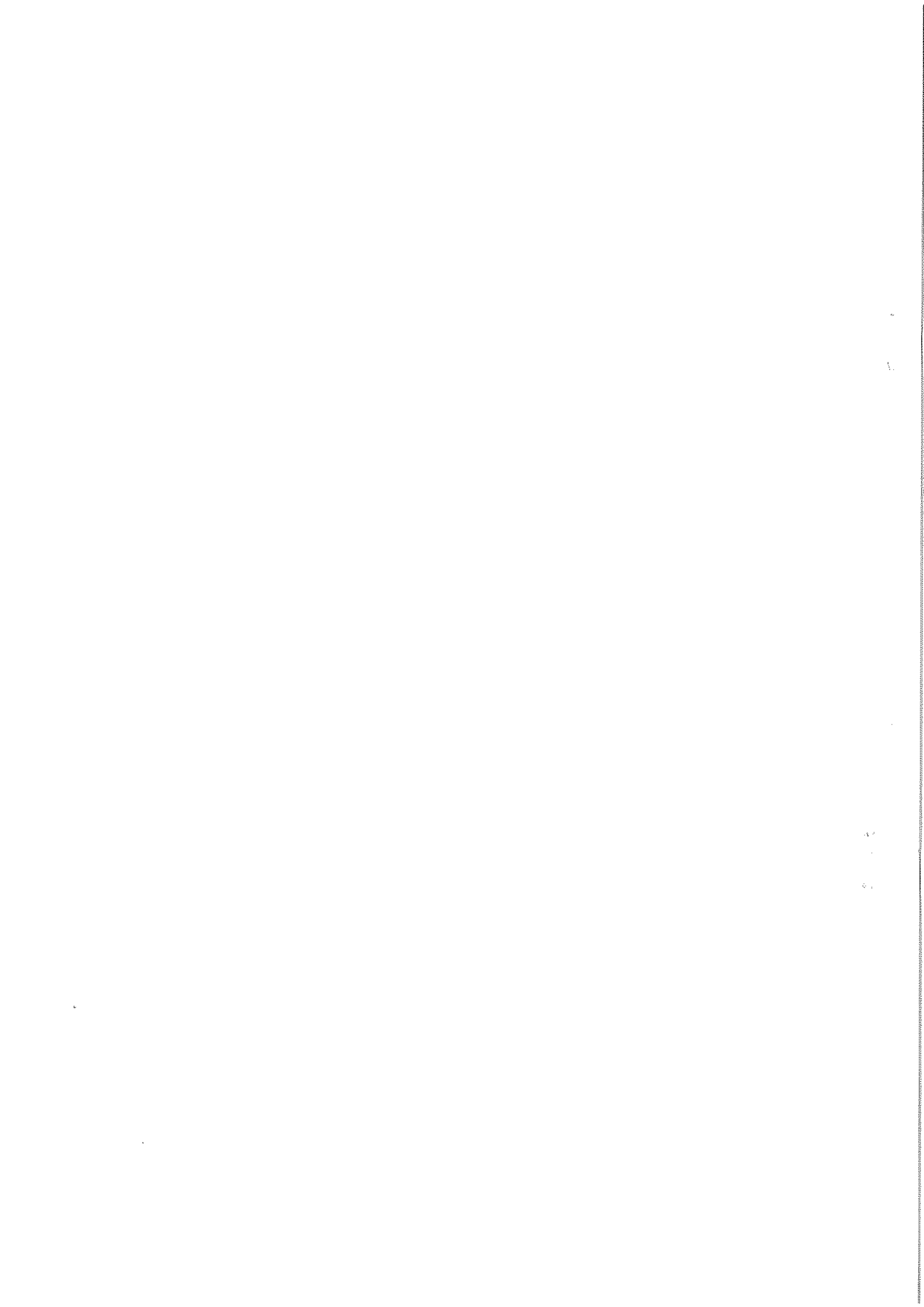
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THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF PHARMACY
ACADEMIC YEAR 2018/2019 – SEMESTER II
BACHELOR OF PHARMACY HONOURS
FMU3204- PHARMACEUTICAL MICROBIOLOGY I- LEVEL 3
FINAL EXAMINATION
DURATION: 02 HOURS



DATE: 05.11.2019

TIME: 1.30 P.M.- 3.30 P.M.



Index No.....

Part – B (20 marks)

1.1 Name a disc diffusion test which can be used to measure minimum inhibitory concentration of an antibiotic. (01 mark)

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1.2. List **two (02)** methods used in evaluation of disinfectants. (02 marks)

I.

II.

1.3 List **three (03)** characteristics of an ideal disinfectant. (03 marks)

I.

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II.

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III.

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1.4 State the difference between ionizing radiation and non-ionizing radiation giving **one (01)** example for each.

(04 marks)

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Index No.....

2.

2.1 List the **four (04)** phases of bacterial growth curve. (02 marks)

- I.
- II.
- III.
- IV.

2.2 Mention **two (02)** microbial enzymes involve in removing toxic forms of oxygen formed within microbial cell. (02 marks)

- I.
- II.

2.3 Write a short note on biofilms. (06 marks)

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Index No.....

Part C – (60 marks)**Answer all questions.**

1.

1.1 List **three (03)** common characteristics of microorganisms. (03 marks)

1.2 Write a short note on three domain system in classification of organisms. (10 marks)

1.3 State the concept of Koch's postulates. (05 marks)

1.4 Briefly explain the important applications of microorganism in pharmaceutical field. (12 marks)

2.

2.1 State the difference between vertical gene transfer and horizontal gene transfer. (02 marks)

2.2 Compare and contrast between generalized transduction and specialized transduction in gene transfer. (08 marks)

2.3 Describe the key differences between multiplication process of a bacteriophage and an animal virus containing DNA. (20 marks)

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6

4

12.2

12.2