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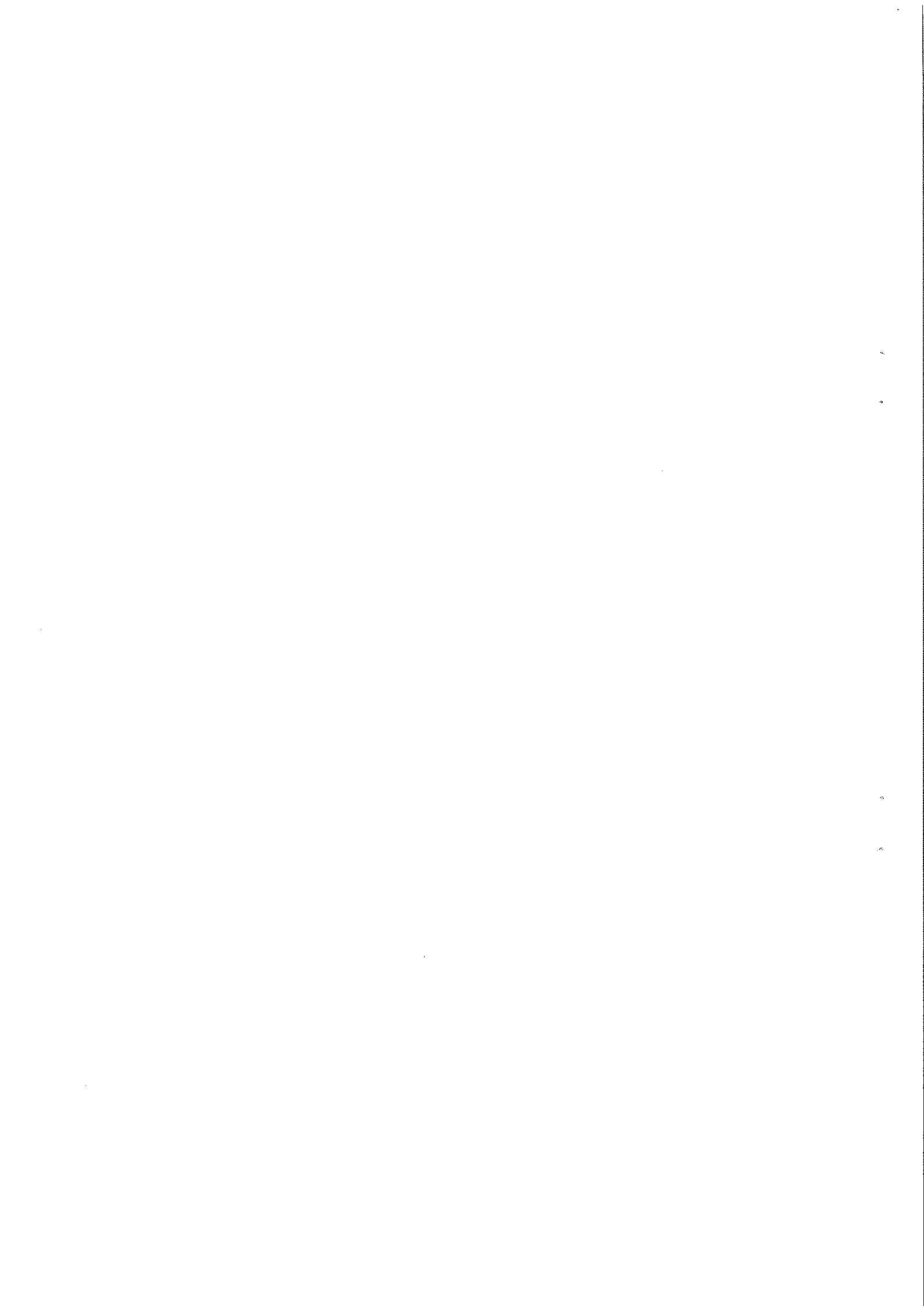
THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCES
ACADEMIC YEAR 2018/2019 – SEMESTER I



BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS
MLU4143 - CLINICAL MICROBIOLOGY II – LEVEL 6
FINAL EXAMINATION
DURATION: TWO HOURS

DATE: 22nd MARCH 2019

TIME: 09.30AM –11.30 AM



Part B: Structured Essay Questions (50 marks)

Q1

1.1 What are the stages of quality assurance cycle? (1.5 marks)

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1.2 Briefly discuss the difference between external quality assessment (EQA) and internal quality assessment (IQA). (05 marks)

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1.3 As the quality control manager, what are the actions you should take in quality control the antibiotic discs? (06 marks)

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(Total Marks: 12.5)

Q2

Briefly explain the following terms.

2.1 Incidence (2.5 marks)

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2.2. Reservoir (05 marks)

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2.3. Source of infection (05 marks)

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(Total Marks: 12.5)

Q3

3.1 What is meant by bioterrorism? (1.5 marks)

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3.2 Mention five (05) key indicators suggesting an act of bioterrorism. (05 marks)

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3.3 What are the major components in Public Health Emergency Preparedness program?

(06 marks)

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(Total Marks: 12.5)

Q4

4.1 Define antimicrobial resistance.

(02 marks)

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4.2 What is meant by horizontal gene transfer?

(02 marks)

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4.3 What are the three (03) main mechanisms of horizontal gene transfer?

(2.5 marks)

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4.4 Briefly explain **one** (01) of above mechanisms.

(06 marks)

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(Total Marks: 12.5)

Part C – Essay Question (20 marks)

1.0 Clinical Laboratory Standard Institute (CLSI) method is a well standardized disc diffusion antibiotic sensitivity test (ABST) method which is commonly used by many clinical laboratories. Discuss the test procedure you should follow to obtain accurate results.