

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
MLU4146 – IMMUNOHISTOCHEMISTRY – LEVEL 6
FINAL EXAMINATION

DURATION: 02 HOURS

DATE: 15.03.2019

TIME: 9.30AM – 11.30AM

Part B: Structured Essay Questions (60 marks)

Q1

1.1 Name the secondary lymphoid Organs. (04 Marks)

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1.2 Name the myeloid cells which provide a first line of defence against the pathogens. (06 Marks)

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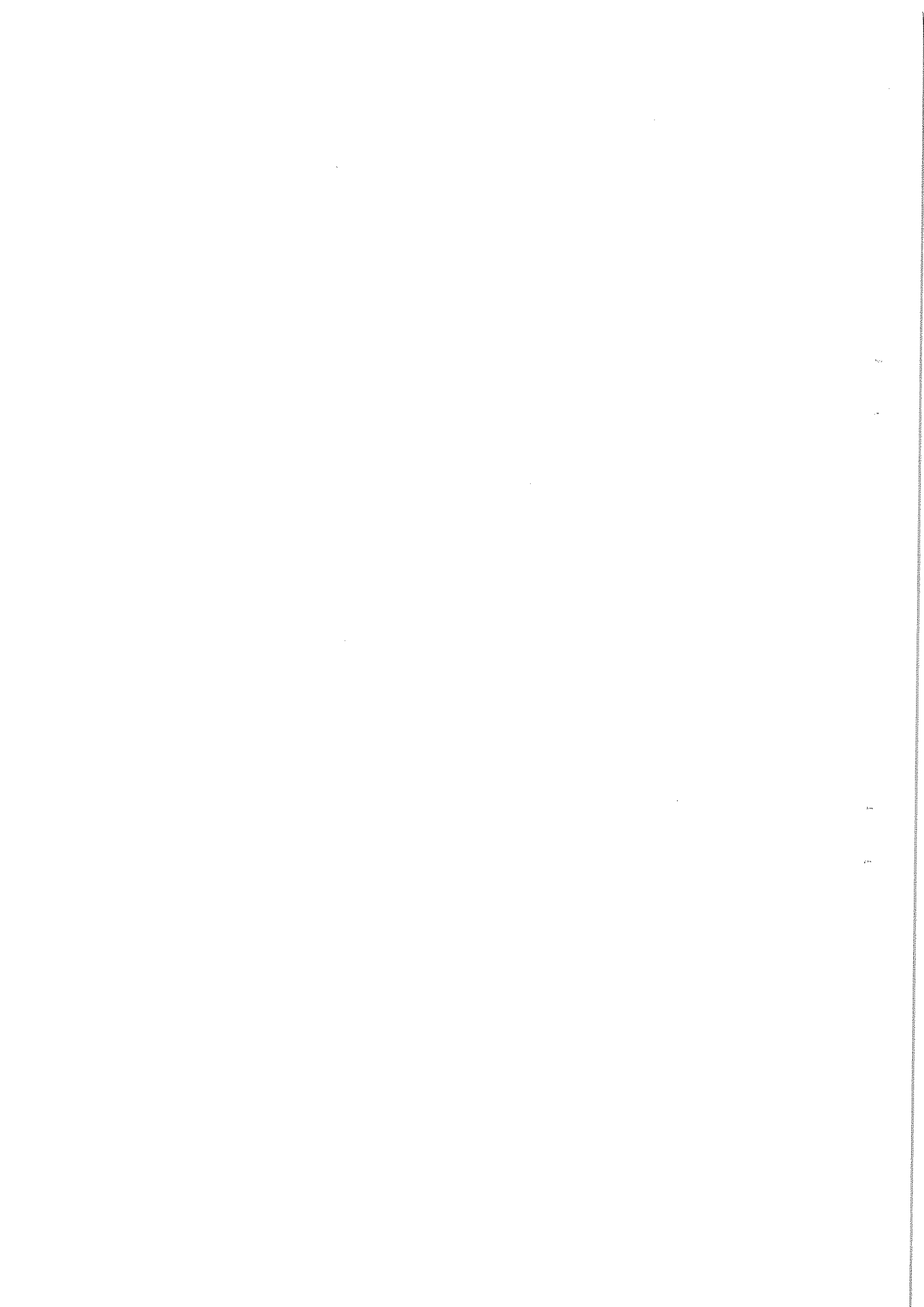
1.3 List four (04) immunological diseases occur due to genetic defects. (04 Marks)

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1.4 How does the cytotoxic T lymphocytes kill the target cells after recognizing the antigen via T cell receptor? (06 Marks)

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Total- 20 Marks



Index No:.....

Q2

2.1 Illustrate the indirect immunofluorescence antibody technique used to detect antigen in a tissue section. (05 Marks)

2.2 Name four (04) fluorochromes which can be used in immunofluorescence technique. (04 Marks)

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2.3 Name five (05) skin diseases that could be diagnosed by immunofluorescence. (05 Marks)

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2.4 A fresh specimen of skin biopsy is received for immunofluorescence studies. Mention the most important steps carried out to prepare the above specimen up to section cutting.

(06 Marks)

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Total- 20 Marks

Index No:.....

Q3

3.1 Illustrate the peroxidase antiperoxidase (PAP) method. (06 Marks)

3.2 Mention one (01) advantage of the peroxidase antiperoxidase PAP method. (03 Marks)

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3.3. Mention one (01) disadvantage of the peroxidase antiperoxidase (PAP) method. (03 Marks)

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3.4. Outline the staining procedure (steps) of Avidin Biotin Complex (ABC) Method?

(08 marks)

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Total- 20 Marks

Part C: Essay Question (20 marks)

I.

1.1 Describe the factors which affect the staining quality in immunohistochemistry.

(10 Marks)

1.2 Describe how you would perform the external quality assessment in immunohistochemistry (By taking UK NEQUA as an example).

(10 Marks)

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