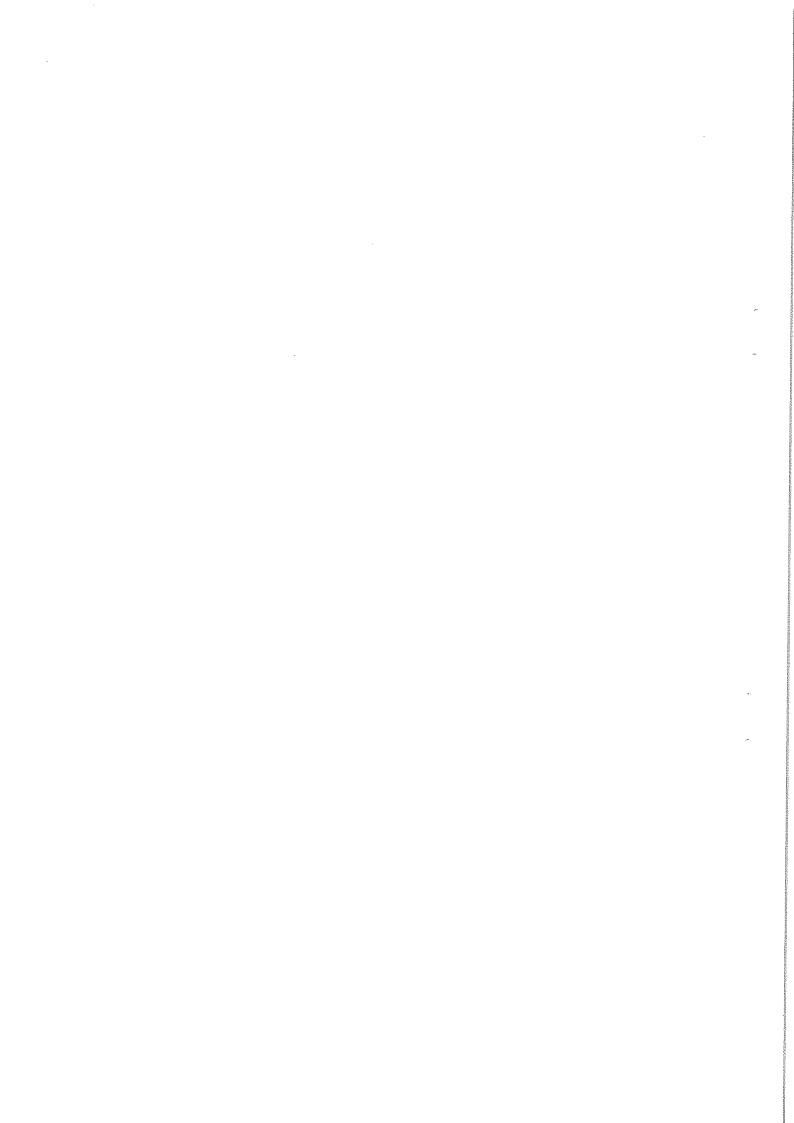# THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCES
ACADEMIC YEAR 2018/2019 – SEMESTER I

BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS
MDU6355 – IMMUNOHISTOCHEMISTRY– LEVEL 6
FINAL EXAMINATION   DURATION: 03 HOURS

DATE:15.03.2019   TIME: 9.30AM –12.30PM

Part B: Structured Essay Questions (40 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 defense against the pathogens.
                                                                           (03 Marks)

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1.3 How does the cytotoxic T lymphocytes kill the target cells after recognizing the antigen via
    T cell receptor?   (03 Marks)

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Total Marks -10

Q2

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

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

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Index No:...

2.3 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.

(03 Marks)

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Total Marks- 10

Q3

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

3.2 Mention one (01) advantage of the peroxidase antiperoxidase (PAP) method.   (02 Marks)

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

(02 Marks)

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Total Marks- 10

Q4

4 .1 What are the problems that could occur due to tissue processing?   (03 Marks)

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4.2 Give six (06) causes for back ground staining.   (03 Marks)

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Index No:...

4.3 Give four (04) causes for artificial staining. (04 Marks)

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Total Marks- 10

Part C: Essay Questions (30 marks)

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

(15 Marks)

2. Describe how you would perform the external quality assessment in immunohistochemistry (By taking UK NEQUA as an example). (15 Marks)

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