

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



BACHELOR OF MEDICAL LABORATORY SCIENCE HONOURS
MDU5206 - CYTOLOGY
FINAL EXAMINATION

DURATION: TWO HOUR

DATE: 28th FEBRUARY 2019

TIME: 01.30 PM – 03.30 PM

Part B: Structured Essay Questions (60 marks)

Q 1. Identification of infectious agents in a cervical smear is not the primary function of a cytoscreener. However, it is important to recognize inflammatory changes in cervical smear as these may be mimics of premalignant or malignant conditions.

1.1 Write four (03) inflammatory changes in epithelial cells

- I
- II
- III

(3 marks)

1.2 Compare and contrast cell changes in HSV and HPV infections

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(8 marks)

1.3 Briefly explain the identification features of following infections in cervical smears

a) Actinomyces

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(3 marks)

b) *Candida* spp.

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(3 marks)

c) *Trichomonas vaginalis*

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(3 marks)

(Total – 20 marks)

Q 2. Abnormal nuclear and cytoplasmic features, resulting from a pre-neoplastic process occurring in the cervical epithelium without invasion of tissue beneath the epithelium is describes as cervical squamous intraepithelial lesions (SIL) or dysplasia.

2.1 List six (06) diagnostic categories of cervical cytology smears according to Bethesda classification

I
II
III
IV.....
V
VI
(6 marks)

2.2 Compare intermediate squamous cells and glandular cells in a cervical cytology smear.

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(6 marks)

2.3 Describe cytological features in low grade squamous intraepithelial lesions (LGSIL) and high grade squamous intra epithelial lesions (HGSIL)

a) Low grade squamous intraepithelial lesions (LGSIL)

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(4 marks)

b) High grade squamous intra epithelial lesions (HGSIL)

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(4 marks)

(Total – 20 marks)

Q 3. Troubleshooting in cytology involves detecting and solving problems that can occur in various aspects of cytology reporting.

3.1 Write four (04) possible sites where errors can occur in cytology specimens handling

I

II

III

IV.....

(4 marks)

3.2 Write four (04) errors that can occur in pap smear preparation and mention the preventive actions for each

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(8 marks)

3.3 Briefly explain the contents that should be included in a completed request form accompanied with a cytology specimen

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(8 marks)

(Total – 20 marks)

Part C: Short Essay Question (20 marks)

Answer the question on the provided papers.

Q 1. Describe the methods of obtaining, processing and preparation of pleural fluid sample
for cytopathology evaluation. (20 marks)

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