



FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA
B.Sc. Medical Laboratory Science Degree Programme
Year End Examination - Year 3 – 4th Batch

Histopathology & Cytopathology – Theory (Essay)

2nd February 2016

Time: 8.30 a.m. – 10.30 a.m.

Answer four questions only.

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1.

- 1.1 Define the term neoplasia. (10 marks)
- 1.2 Describe the characteristic macroscopic and microscopic features of a malignant neoplasm. (60 marks)
- 1.3 Briefly describe the modes of spread of a malignant neoplasm. (30 marks)

2. The histopathology laboratory in your hospital received a mastectomy specimen with a breast cancer, in formalin, soon after the surgery.

- 2.1 Describe the steps that you would take to ensure best preservation of the tumour until the cassettes containing tissues are loaded in the tissue processor. (30 marks)
- 2.2 Describe the changes that the tissue undergoes during the processing in a tissue processor. (60 marks)
- 2.3 List five factors which affect processing of tissue. (10 marks)

3. Write notes on the,

- 3.1 Use of special stains in detecting micro-organisms in tissues. (50 marks)
- 3.2 Use of controls in immunohistochemistry. (50 marks)

4.

- 4.1 List five different types of samples received in a Pathology laboratory for cytological assessment. (20 marks)
- 4.2 Describe how you would process a sample of peritoneal fluid received for the assessment of malignant cells (Your answer should include all the steps to be done to prepare satisfactory slides ready for the pathologist to assess). (80 marks)

5. A 45 year-old female presented to the Well Women Clinic for routine cervical screening.

- 5.1 Discuss the importance of routine cervical screening. (50 marks)
- 5.2 List the conditions that can be detected in a cervical smear. (30 marks)
- 5.3 List 4 causes for an unsatisfactory smear. (20 marks)

