



Faculty of Allied Health Sciences, University of Ruhuna
 Department of Medical Laboratory Science
 Year End Examination, Year 3 – 7th Batch

Histopathology and Cytology – Theory

Friday 04th May 2018

Time: 8.30 a.m. – 10.30 a.m.

Index No:

Instructions: Answer 4 out of 5 questions. Answer each question in a separate booklet.

1. Explain the measures that you would take to obtain good sections for histopathology reporting from the tissue block when,
 - 1.1. All tissues taken out from the tissue processor for embedding are hard? (60 marks)
 - 1.2. Some of the blocks of routinely processed tissues are hard and difficult to take sections? (40 marks)

2.
 - 2.1. List the main steps in Hematoxylin & Eosin staining of a tissue section. (20 marks)
 - 2.2. Describe the scientific basis of each step that you have mentioned for 2.1. (80 marks)

3.
 - 3.1. Describe the basic principle of immunohistochemical staining. (40 marks)
 - 3.2. List four causes for background staining in immunohistochemistry. (20 marks)
 - 3.3. Briefly describe how you would minimize the background staining. (40 marks)

4.
 - 4.1. Describe the methods of fixation used in preparing a specimen for cytological assessment. (40 marks)
 - 4.2. Compare and contrast the value of Papanicolaou stain and the Romanowsky stains in the cytological assessment. (30 marks)
 - 4.3. Describe the measures you would take in the laboratory to ensure safety in processing a sample of pleural fluid for cytological assessment. (30 marks)

5.
 - 5.1. List four genes involved in carcinogenesis. (20 marks)
 - 5.2. List two microorganisms that are known to be involved in carcinogenesis process. (10 marks)
 - 5.3. Describe the cytological features of malignancy. (40 marks)
 - 5.4. Define thrombosis. (10 marks)
 - 5.5. Describe the sequel of thrombosis. (20 marks)

34

