FACULTY OF MEDICINE, UNIVERSITY OF RUHUNA
B.Sc. Medical Laboratory Science Degree Programme
Year End Examination Year 3- 5th Batch

Histopathology & Cytopathology-Theory

Wednesday 31st Aug 2016   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.

1.1. Define thrombosis.   (5 marks)

1.2. State **three** examples for thrombosis.   (15 marks)

1.3. Explain the basis of development of thrombi following a surgery.   (40 marks)

1.4. List the similarities and differences between apoptosis and necrosis.   (30 marks)

1.5. State **five** examples of apoptosis occurring in a healthy individual.   (10marks)

2. Write short notes on the following in relation to immunohistochemistry.

2.1. Antigen retrieval   (30 marks)

2.2. Background staining   (30 marks)

2.3. Use of controls   (40 marks)

3.

3.1. Describe the scientific basis and the uses of silver stain in histopathology.   (50 marks)

3.2. Explain the measures that you would take to ensure good H & E staining of tissue sections in your laboratory.   (50 marks)

4.

4.1. List **four** factors which influence the rate of tissue processing in a tissue processor.   (10 marks)

4.2. Describe how these factors are utilized in the design of the tissue processor to improve the rate of tissue processing.   (50 marks)

4.3. Explain the measures that you would take in assuring the best care and maintenance of the automated tissue processor in your laboratory.   (40 marks)

5.

5.1. Describe how you would process a fresh sample of pleural fluid received in the laboratory for cytological assessment by a pathologist.   (40 marks)

5.2. Explain how you would assure your safety in handling the above specimen.   (30 marks)

5.3. Describe advantages and disadvantages of cervical screening.   (20 marks)

5.4. List **three** infections that may be detected in a cervical smear.   (10 marks)