

FACULTY OF ALLIED HEALTH SCIENCES, UNIVERSITY OF RUHUNA Department of Medical Laboratory Science Year End Examination – Year 3 - 8th Batch Histopathology & Cytopathology (MLS 3101) – SEQ

| Date: | Pate: 08 th November Answer only four questions. | | me: 09.00 a.m 11.00 a.m. Duration | n: 2 hours | |
|-------|---|-----------------------------|--|---|--|
| Answe | | | Index Number: | | |
| 1. | the His | | pared by a Medical Laboratory Technologist have been reartment of Pathology in a private medical laboratory. Detable. | | |
| | Slic | le Specimen type | Reason for the rejection | 38 | |
| | A | Gall bladder | Only the external layer of the gall bladder is visible. | | |
| | В | Breast tissue | Absence of full face | | |
| | C | Biopsy sample | Presence of air bubbles disturbing evaluation | | |
| | D | Appendix | Presence of folds disturbing evaluation | | |
| | | | | | |
| | | for the rejection of slides | | (40 marks) | |
| | 1.2 | Explain how you would o | correct the above errors mentioned for slides A to D. | (60 marks) | |
| | | | 6 | | |
| | | | | | |
| 2. | Special stains are used for the identification of specific tissues in histopathology. | | | | |
| | 2.1 Briefly describe the basic principle of the following special stains. | | | | |
| | | 2.1.1. Perl's stain | | (20 marks) | |
| | | 2.1.2. Alcian blue stain | | (20 marks) | |
| | | 2.1.3. Van Gieson stain | | (20 marks) | |
| | | | | | |
| 1 | 2.2 | | counter staining in special stains. | (15 marks) | |
| | 2.3 | Discuss the value of cour | nter staining in special stains. | (25 marks) | |
| 2 | | | | | |
| 3. | 3.1 | List five different non as | necological cytology samples received to the | (20 marks) | |
| | 3.1 | laboratory for assessmen | | (20 marks) | |
| | 3.2 | | as that should be followed in the transportation of | (40 marks) | |
| | J. L | cytology specimens. | is that should be followed in the transportation of | (10 mains) | |
| | 3.3 | | assure laboratory safety while you are working in a | (40 marks) | |
| | J.2 | cytology laboratory. | The state of the s | , | |

2 0 FEB 2020

| 4. | | | | |
|----|-------------------------------------|--|------------|--|
| | 4.1 | List the classic signs of acute inflammation. | (10 marks) | |
| | 4.2 | Describe the pathological basis of development of above mentioned signs in acute inflammation. | (60 marks) | |
| | 4.3 | Define necrosis. | (10 marks) | |
| | 4.4 | List four types of necrosis giving examples for each type. | (20 marks) | |
| | | | | |
| 5. | Write short notes on the following. | | | |
| | 5.1 | Antigen retrieval in immunohistochemistry | (30 marks) | |
| | 5.2 | Dehydration during preparation of tissue for histological assessment | (40 marks) | |
| | 5.3 | Positive controls in histopathology | (30 marks) | |
| | | | | |