

**BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS**  
**MDU5358– HISTOPATHOLOGY**  
**FINAL EXAMINATION**

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DATE: 4<sup>th</sup> MARCH 2022

TIME: 09.30 AM – 12.30 PM

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**Part B: Structured Essay Questions (40 marks)**

1. Carcinogens play a vital role in inducing cancer in human.

1.1 Name two (02) main groups of carcinogens that induce cancer other than chemicals.

(1 mark)

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1.2 Briefly explain the events/steps in chemical carcinogenesis.

(5 marks)

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1.3 Briefly describe the essential cellular changes need for malignant transformation.

(4 marks)

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**(TOTAL 10 MARKS)**



2.

2.1 Define chronic inflammation. (3 marks)

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2.2 Name two (02) causes for chronic inflammation with examples for each cause. (2 marks)

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2.3 Briefly describe the differences between primary tuberculosis and secondary tuberculosis. (5 marks)

Primary Tuberculosis	Secondary Tuberculosis

(TOTAL 10 MARKS)

3. Pathological calcification refers to the deposition of calcium salts together with other minerals, which would not normally have become mineralized.

3.1 Name two (02) types of pathological calcifications. (2 marks)

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3.2 Briefly explain the differences between two types of pathological calcifications that you mentioned in 3.1. (6 marks)

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3.3 Name two (02) complications that occur as a result of pathological calcification. (2 marks)

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**(TOTAL 10 MARKS)**

4.

4.1 What is thrombosis.

(1 mark)

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4.2 Briefly explain the main factors that lead to thrombosis.

(5 marks)

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4.3 Briefly explain the pathological effects of systemic thromboembolism.

(4 marks)

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**(TOTAL 10 MARKS)**

**Part C: Essay Questions (30 marks)**

1. Explain the mechanism of scar formation in the tissue the healing process of skin wounds. (15 marks)
  
2. Write short notes on following topics. (15 marks)
  - 2.1 Differences between benign and malignant tumours
  - 2.2 Role of neutrophils in acute inflammation

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