



THE OPEN UNIVERSITY OF SRI LANKA  
FACULTY OF HEALTH SCIENCES  
DEPARTMENT OF MEDICAL LABORATORY SCIENCES  
ACADEMIC YEAR 2018/2019 – SEMESTER I

BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS  
MLU3149 – HISTOPATHOLOGY  
FINAL EXAMINATION

DURATION: TWO HOURS

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DATE: 12<sup>th</sup> MARCH 2019

TIME: 09.30 AM – 11.30 AM

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**Part B: Structured Essay Questions (60 marks)**

1. A 39 year old female presents to follow-up treatment for a deep venous thrombosis (DVT) of her right lower extremity. She initially presented six months prior to emergency care with severe right lower extremity swelling following immobilization and casting for a right ankle fracture.

1.1 Define the term thrombosis. (4 marks)

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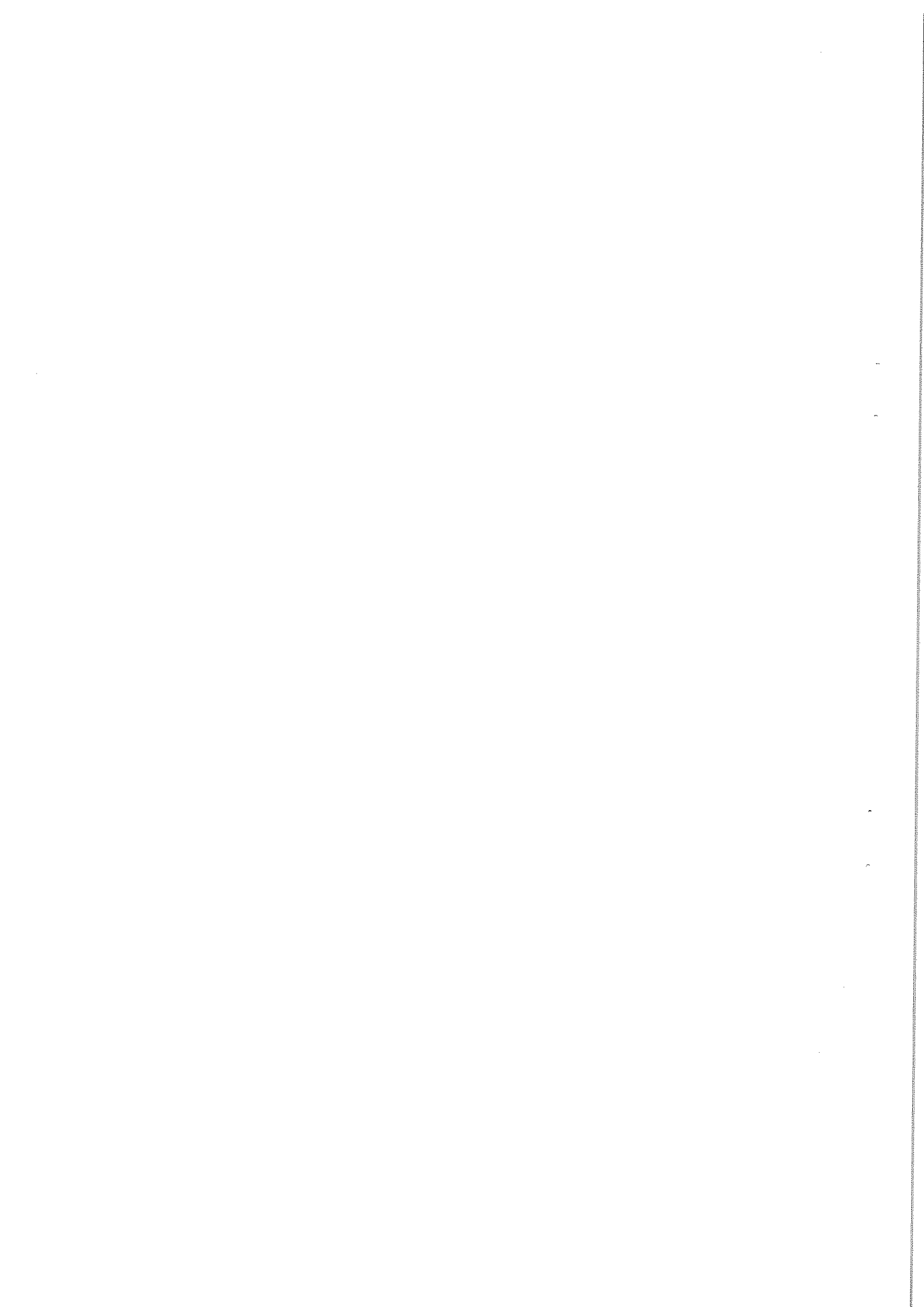
1.2 Briefly describe the Virchow's triad in thrombosis. (12 marks)

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1.3 State the fate of a thrombus. (4 marks)

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(TOTAL 20 MARKS)



INDEX NO: .....

2. A 62 year old male presented to the Teaching Hospital Kandy, for a second opinion regarding diagnosis of a urinary bladder mass. He had a 2 year history of worsening urinary incontinence and urgency. After series of investigations, the tissue mass was diagnosed as malignant.

2.1 Briefly discuss the differences between features of benign and malignant tumours.

(12 marks)

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2.2 List two (02) modes of tumour spread.

(4 marks)

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2.3 State two (02) essential cellular changes required for malignant transformation.

(4 marks)

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**(TOTAL 20 MARKS)**

3.

3.1 Define the term acute inflammation.

(4 marks)

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3.2 Briefly describe the pathological basis of the cardinal signs of acute inflammation.

(10 marks)

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3.3 State the outcomes of an acute inflammatory reaction. (6 marks)

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**(TOTAL 20 MARKS)**

**Part C: Essay Question (20 marks)**

- 1. Write short notes on following topics.
  - 1.1 Differences between metastatic calcification and dystrophic calcification. (10 marks)
  - 1.2 Different types of gangrenes. (10 marks)