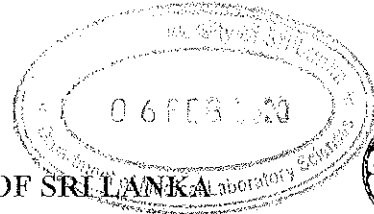


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THE OPEN UNIVERSITY OF SRI LANKA
FACULTY OF HEALTH SCIENCES
DEPARTMENT OF MEDICAL LABORATORY SCIENCES
ACADEMIC YEAR 2019/2020– SEMESTER I

BACHELOR OF MEDICAL LABORATORY SCIENCES HONOURS
MDU5358 - HISTOPATHOLOGY
NO BOOK TEST 01

DURATION: 1 ½ HOURS

DATE: 6th FEBRUARY 2020

TIME: 11.00 AM – 12.30 PM

REGISTRATION NO:

IMPORTANT INSTRUCTIONS/ INFORMATIONS TO CANDIDATES

- This question paper consists of 9 pages with 10 Multiple Choice Questions (Part A), 04 Structured Essay Questions (Part B) and 01 Essay Question (Part C).
- Write your Registration Number in the space provided.
- Answer ALL questions.
- **Multiple Choice Questions (Part A):** Mark the best answer for each question in the answer sheet provided by placing a cross (X) in INK in the relevant cage. (Answers in pencil will NOT be marked)
- **Structured Essay Questions (Part B):** Write answers within the space provided.
- **Essay Question (Part C):** Answer the question on the provided papers.
- Do not remove any page/part of this question paper from the examination hall.
- Mobile phones and any other electronic equipment are NOT allowed. Leave them outside.

To:

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Part A: Multiple Choice Questions (10 marks)

1. Anoxia is,
 - a) an abnormal tissue oxygen utilization.
 - b) an absence of oxygen at the tissue level .
 - c) high oxygen level at the organ level.
 - d) deficiency of oxygen at the cellular level.

2. Heterophagy and autophagy are processes associated with the function of,
 - a) mitochondria.
 - b) nucleus.
 - c) lysosomes.
 - d) smooth endoplasmic reticulum.

3. Which one of the following is true regarding karyorrhexis?
 - a) Nucleus becomes enlarged.
 - b) Nucleus undergoes fragmentation.
 - c) Nucleus appears pale in colour compared to a normal cell.
 - d) Nucleus undergoes shrinkage.

- 4 Which of the following is the most common site of origin of pulmonary emboli?
 - a) Lumen of left ventricle
 - b) Deep leg veins
 - c) Left pulmonary vein
 - d) Superficial leg veins

5. Which of the following is an example of physiological atrophy?
 - a) Atrophy of sexual glands in elderly
 - b) Atrophy resulting from compression
 - c) Atrophy resulting from damage to nerves
 - d) Ischemic atrophy

6. A granuloma is a,
 - a) pus filled cavity.
 - b) microscopic aggregate of epithelial cells surrounded by lymphocytes.
 - c) nodular collection of necrotic cells surrounded by neutrophils.
 - d) microscopic aggregate of epitheloid cells surrounded by lymphocytes.

7. Wound healing is delayed in,
- a) vitamin C deficiency.
 - b) vitamin E deficiency.
 - c) vitamin A deficiency.
 - d) vitamin D deficiency.
8. Which one of the following is a chemotactic agent for neutrophils?
- a) Platelet derived growth factor
 - b) Transformation growth factor
 - c) Leukotrine B₄
 - d) Tumour necrosis factor
9. Which one of the following is involved in the activation of extrinsic pathway of blood coagulation?
- a) Collagen
 - b) Calcium ions
 - c) Tissue factor
 - d) Factor X_a
10. Which one of the following is an endogenous pigment?
- a) Carbon
 - b) Tattoo ink
 - c) Lipofuscin
 - d) Asbestos

REGISTRATION NO:

Part B: Structured Essay Questions (80 marks)

1.

1.1 List two (02) causes for metastatic calcification. (4 marks)

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.....

1.2 Briefly discuss the differences between metastatic calcification and the other type of pathological calcification. (16 marks)

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(TOTAL 20 MARKS)

2.

2.1 Define the term acute inflammation. (4 marks)

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.....
.....

2.2 Briefly describe the pathological basis of the cardinal signs of acute inflammation. (10 marks)

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2.3 Briefly explain the outcomes of an acute inflammatory reaction. (6 marks)

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(TOTAL 20 MARKS)

3.

3.1 Define the term thrombosis. (4 marks)

.....

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

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

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(TOTAL 20 MARKS)

REGISTRATION NO:

4.

4.1 Define chronic inflammation. (6 marks)

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.....

4.2 List two (02) types of cells involved in chronic inflammation. (4 marks)

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4.3 Briefly describe the functions of one of the above mentioned (4.2) cell types in chronic inflammation. (10 marks)

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(TOTAL 20 MARKS)

Part C: Essay Question (10 marks)

1. Briefly explain the different types of gangrenes.

(10 marks)

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ANSWER SHEET FOR PART A

1.

a	b	c	d
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2.

a	b	c	d
---	---	---	---

3.

a	b	c	d
---	---	---	---

4.

a	b	c	d
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5.

a	b	c	d
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6.

a	b	c	d
---	---	---	---

7.

a	b	c	d
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8.

a	b	c	d
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9.

a	b	c	d
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10.

a	b	c	d
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