



00117

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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
MDU4209 – GENERAL PATHOLOGY
NO BOOK TEST 01

DURATION: 1 HOUR

DATE: 6th FEBRUARY 2020

TIME: 11.00 AM – 12.00 PM

REGISTRATION NO:

IMPORTANT INSTRUCTIONS/ INFORMATIONS TO CANDIDATES

- This question paper consists of **8 pages** with **10 Multiple Choice Questions (Part A)**, **02 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,
- vitamin C deficiency.
 - vitamin E deficiency.
 - vitamin A deficiency.
 - vitamin D deficiency.
8. Red thrombi,
- occur in arterial circulation.
 - occur in venous system.
 - occur where blood flow is rapid.
 - have few red cells.
9. Which one of the following is involved in the activation of extrinsic pathway of blood coagulation?
- Collagen
 - Calcium ions
 - Tissue factor
 - Factor Xa
10. Which one of the following is an endogenous pigment?
- Carbon
 - Tattoo ink
 - Lipofuscin
 - Asbestos

REGISTRATION NO:

Part B: Structured Essay Questions (80 marks)

1.

1.1 Define the term acute inflammation. (4 marks)

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1.2 Briefly describe the pathological basis of the cardinal signs of acute inflammation. (20 marks)

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1.3 Briefly explain the functions of neutrophils in acute inflammation. (10 marks)

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

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(TOTAL 40 MARKS)

2.

2.1 Define the term thrombosis. (8 marks)

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2.2 Briefly describe the Virchow's triad in thrombosis. (14 marks)

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2.3 Briefly explain the fate of a thrombus. (12 marks)

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2.4 List three (03) causes for disseminated intravascular coagulation. (6 marks)

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(TOTAL 40 MARKS)

REGISTRATION NO:

Part C: Essay Question (10 marks)

1. Write short notes on following topics.

1.1 Dry gangrene

(4 marks)

1.2 Function of macrophages in chronic inflammation

(6 marks)

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ANSWER SHEET FOR PART A

1.

a	b	c	d
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2.

a	b	c	d
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3.

a	b	c	d
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4.

a	b	c	d
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5.

a	b	c	d
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6.

a	b	c	d
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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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