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THE OPEN UNIVERSITY OF SRI LANKA
KANDY REGIONAL CENTRE
EXAMINATION
17 MAR 2020

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 II

DURATION: 1 HOUR

DATE: 11th MARCH 2020

TIME: 09.00 AM – 10.00 AM

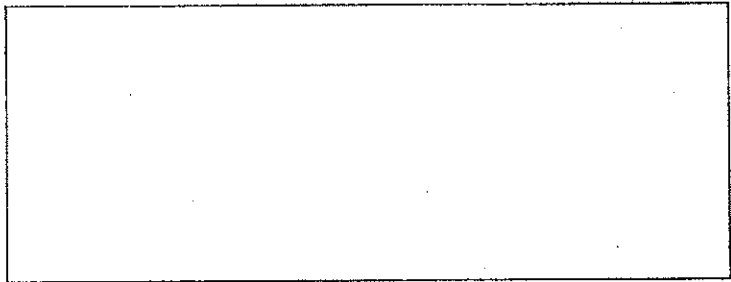
REGISTRATION NO:

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.

REGISTRATION NO:

To:



Part A: Multiple Choice Questions (10 marks)

1. A neoplasm composed of a variety of cell types representing more than one germ layer is referred to as
 - a) papilloma.
 - b) teratoma.
 - c) sarcoma.
 - d) polyp.

2. TNM system is used for tumour staging. TNM stands for
 - a) Tumour, Nodule, Metastasis
 - b) Tumour, Node, Metastasis
 - c) Tumour, Neoangiogenesis, Metastasis
 - d) Tumour, Nutrition, Metastasis

3. Which property of p53 gene enables it to prevent the development of cancer?
 - a) p53 causes production of proteins that stimulate the cell cycle.
 - b) p53 prevents the replication of cells with damaged DNA.
 - c) p53 prevents cells from triggering apoptosis.
 - d) p53 stimulates synthesis of DNA repair enzymes.

4. Infarcts tend to be hemorrhagic when they occur in
 - a) kidney.
 - b) lungs.
 - c) spleen.
 - d) heart.

5. Which of the following **DOES NOT** commonly give rise to lymphatic metastasis?
 - a) Renal cell carcinoma
 - b) Breast carcinoma
 - c) Osteosarcoma
 - d) Colonic carcinoma

6. Which one of the following is an example for metaplasia?
 - a) Squamous epithelium in chronic atrophic gastritis
 - b) Squamous epithelium in the main stem bronchus of a smoker
 - c) Follicular epithelial cells of thyroid gland in autoimmune thyroiditis
 - d) Multinucleated giant cells in granuloma

7. The main function of Adenomatous Polyposis Coli (APC) gene is
- a) preventing the accumulation of cells with mutations.
 - b) down regulating growth promoting signals.
 - c) inducing cell death in cells with genomic injury.
 - d) regulating cell growth and differentiation.
8. "Nutmeg Liver" is seen in
- a) liver cirrhosis.
 - b) liver necrosis.
 - c) chronic passive congestion.
 - d) liver trauma due to hemorrhage.
9. Hemosiderin laden macrophages can be seen within alveoli in
- a) hepatic venous congestion.
 - b) chronic pulmonary venous congestion.
 - c) acute pulmonary venous congestion.
 - d) venous obstruction.
10. Which of the following is an irreversible cellular adaptation?
- a) anaplasia.
 - b) hypertrophy.
 - c) atrophy.
 - d) dysplasia.

Part B: Structured Essay Questions (80 marks)

1)

1.1 Define gangrene? (8 marks)

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1.2 List three (03) examples for primary gangrene. (12 marks)

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1.3 Briefly describe the differences between two main types of secondary gangrene. (20 marks)

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(Total: 40 Marks)

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Part C: Essay Question (10 marks)

1) Write short notes on following topics.

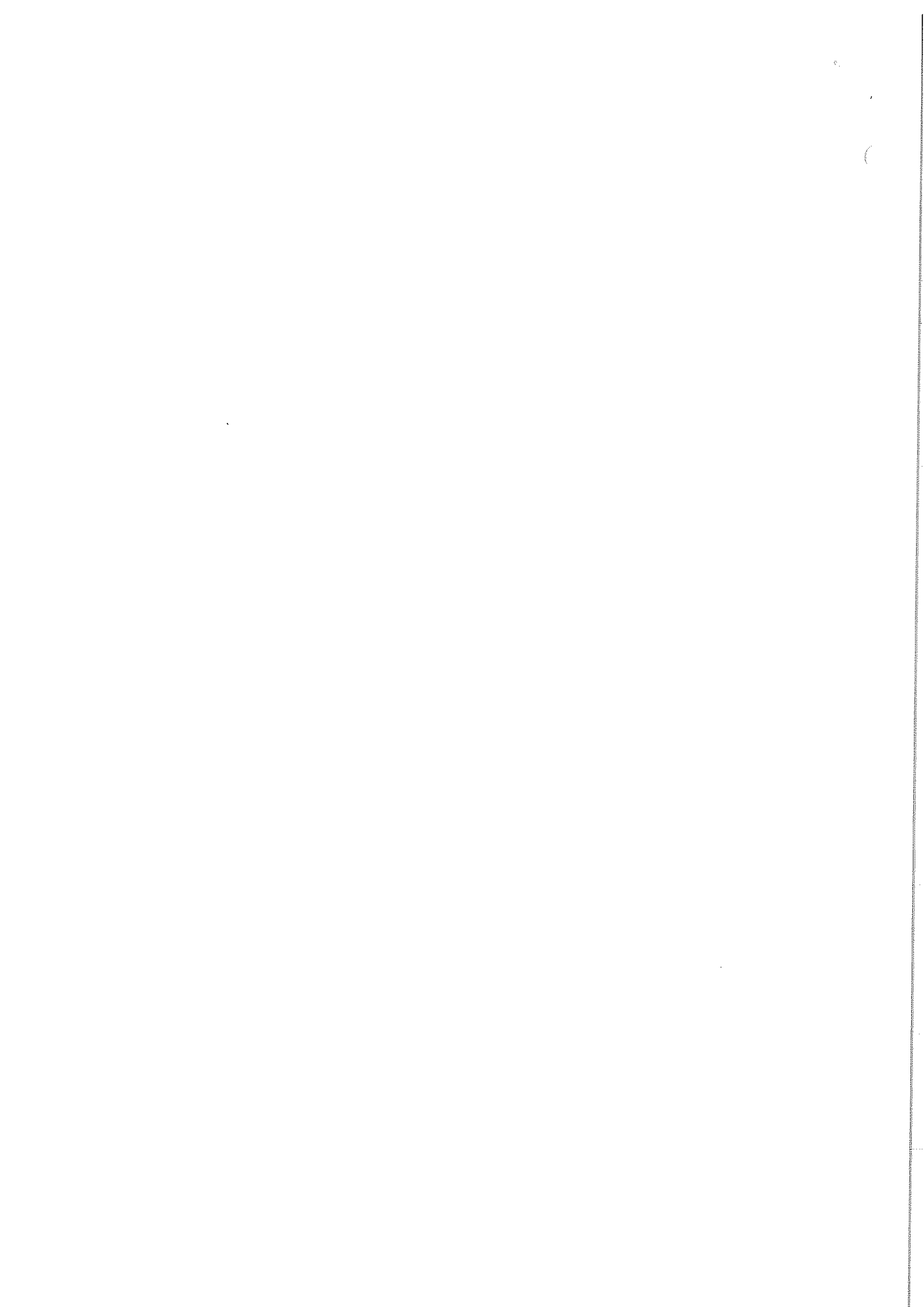
1.1 Cancer cachexia.

(5 marks)

1.2 Methods of activation of oncogenes

(5 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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