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11 MAR 2020
THE OPEN UNIVERSITY OF SRI LANKA
KANDY REGIONAL EXAMINATION

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 II DURATION: 1 ½ HOURS

DATE: 11th MARCH 2020 TIME: 09.00 AM – 10.30 AM

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.

REGISTRATION NO:

To:

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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.

REGISTRATION NO:

2) A 59 year woman came to the National Hospital of Sri Lanka complaining of heavy, irregular, prolong menstrual bleeding and back pain. After doing a series of investigations she was diagnosed with leiomyoma.

2.1 What is the origin of leiomyoma? Is it a benign or a malignant tumour? (4 marks)

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2.2 Define the term tumour. (6 marks)

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2.3 Briefly describe the differences between the features of benign and malignant tumours. (10 marks)

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(Total: 20 Marks)

3)
3.1 List three (03) modes of tumour spread and give one example for each. (9 marks)

- i.....
- ii.....
- iii.....

3.2 Briefly describe the essential cellular changes required for malignant transformation. (11 marks)

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(Total: 20 Marks)

4)
4.1 What is Disseminated Intravascular Coagulation (DIC)? (4 marks)

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REGISTRATION NO:

4.2 List four (04) causes for DIC. (6 marks)

- i.....
- ii.....
- iii.....
- iv.....

4.3 Briefly describe the effects of DIC. (10 marks)

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(Total: 20 Marks)

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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NO BOOK TEST II

DATE: 11th MARCH 2020

TIME: 09.00 AM – 10.30 AM

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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