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(05 Marks)

Index number.

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Time: 03 hours

UNIVERSITY OF JAFFNA, SRI LANKA SECOND EXAMINATION FOR MEDICAL DEGREES—SEPTEMBR 2020 Pathology Paper II

Date: 16.09.2020. ANSWER ALL THE 10 QUESTIONS Write the answers in the given space below each question.

- A 30-year-old man who was a chronic, alcoholic from young age, with a past history of recurrent left hypochondria! and epigastric abdominal pain radiating to back with nausea and sometimes vomiting over the past 10 years, presented with coma to the Accident and emergency. He was rehabilitated from alcohol dependency 2 years ago and maintains abstinence. On admission his capillary blood glucose was >28rnmol / L.
- 1.1. What is the most likely diagnosis?
- 1.2. What can be the actiology for the condition you mentioned in 1.1? (05 Marks)
- Outline the pathophysiology behind this diagnosis mentioned in 1.1. (20 marks)

- List four (04) biochemical tests you will perform in this patient at this situation and give the expected findings. (40 marks)
 - 1
 - 3
 - Name one (01)non biochemical investigation that you will perform to confirm the aetiology which you mentioned in 1.2. (10marks)





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1.6. Outline four (04) long term complications that may occur if the condition mentioned in 1.1 is uncontrolled for a longer period. (20 Marks)





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2. Haemopoiesis depend on many factors. 2.1 List the factors required for haemopoiesis and indicate one disease which relates to the defects in each factor stated. (15 marks) 22. Briefly outline "haemopoiesis in patients with thalassaemia major". (25 marks) 10 List four (04) tests useful to assess haemopoiesis and expected results hi anaemia due to 2.3. marrow underproduction (marrow failure). (15 marks) 1 3. 4

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3,	A 68- year-old man was admitted to Teaching Hospital Jaffna with a clini severe iron deficiency anaemia (IDA).	cal suspicion of
3.1.	Outline the pathogenesis of	
	3.1.1 Anaemia in iron deficiency.	(15marks)
	3.1.2 Red cell changes observed in iron deficiency.	(15 marks)
		(13 mm k3)
3.2	Outline the expected automated full blood count (FBC) report in IDA.	(25 marks)
	227	
3.3.	Statefive (05) different questions you would ask from the patient to ascertain underlying	
	causeis for iron deficiency.	(15 marks)
	3	
	4	

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ow you would monitor response to therapy.	(15
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4,1	List three (03) possible causes for the given clinical presentation, (15)	Marks)
	1	
	3	
4.2	Briefly describe the pathogenesis of any one cause mentioned in 4.1.	(25 Marks)
	<u> </u>	
	L'ILS	
4.3	. Describe settings in which chronic inflammation occurs with suitable examples.	(40 marks)
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2)	
Eg.	
3)	
3)	
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	<u> </u>
Name three (03) samples/tests that can be done to arrive at a diagnosis in this patien
1	(15 m
2	
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	 special stain used in the laboratory to identify etiological agent in ch
inflammation	L. (05 M



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UNIVERSITY OF JAFFNA, SRI LANKA SECOND EXAMINATION FOR MEDICAL DEGREES—SEPTMBR 2020 Pathology Paper II

- The surgeon wishes to commence a one stop clinic service for patients of age range 20-60 years visiting the surgical clinic at TH Jaffna with breast lumps.
 - 5_I State. two (02) laboratory tests that can be offered to the patients. (10Marks)

1.

5.2. State two (02) advantages and two (02) disadvantages of the two (02) tests mentioned in 5.1. (20 marks)

1). Advantage :	
1	
2	
Disadvantage:	
2	
2). Advantage	
and a second second	
Disadvantage :	-
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- List Eve (05) pathological conditions that may be encountered in the patients of the above age range. (25 Marks)
 - 1 2 3 4
 - 5

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 5_4. Describe the macroscopy and microscopy of any one of benign conditions mentioned in 5.3. (30 Marks)

5.5. What is your recommendation if the surgeon requests to consider to include hormone/ molecular testing in the same clinic visit? (10 Marks)

5.6. Mention the suitable sample and test method to assess the hormone status in breast cancer. (05 marks)



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	Briefly explain the following.	
6.1.	Pathogenesis of acute appendicitis.	(20 Marks)
	69	
EL2	Systemic effects of neoplasia.	(20 Marks)
	~~~~	
6.3.	Use of laboratory tests in cancer diagnosis.	(20 Marks
0.5.		(20 Starks

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Pathogenesis of multinod	lular colloid goiter.	(20 ma
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Presence of brown pigme	ent in tissues.	(20 n
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## UNIVERSITY OF JAFFNA, SRI LANKA SECOND EXAMINATION FOR MEDICAL DEGREES—SEPTEMBER 2020 Pathology Paper II

A 65- year-old obese man with hypertension gave a history of recurrent episodes of colicky abdominal pain on 2 occasions which subsided and then presented to the emergency unit with acute generalized abdominal pain and subjected to an emergency laparotomy. A large segment of the small intestine was gangrenous. He succumbed to multi organ failure post operatively. The post mortem revealed extensive atheromatous plaques in the aorta and occlusive thrombi in the mesenteric vessels.

 Briefly explain the possible reasons for the changes observed in the mesenteric vessels and intestines. (15 Marks)

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Briefly explain the risk factors of atherosclerosis,	(30 Mark
	(30 Mar
Briefly describe the pathogenesis of atherosclerosis.	(30 Mar
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## UNIVERSITY OF JAFFNA, SRI LANKA SECOND EXAMINATION FOR MEDICAL DEGREFS—SEPTMBR 2020 Pathology Paper H

- A 35-year-old man presented to the medical unit with bilateral swelling of feet and facial puffiness. Urine 24 hour protein was 7g. Urine microscopy examination revealed 50-60 RJEIC/HPF and presence of granular casts. Blood investigations revealed low serum protein and complement levels, and ANA test was positive in 1:80titre. A renal biopsy was performed.
  - 8.1 State the most likely diagnosis and state the reason for your diagnosis. (10 Marks)
    - Briefly explain the expected light microscopic appearance of the renal biopsy of this patient. (30 Marks)

8.3. Explain the pathogenesis of the renal pathology / lesion of this patient. (30 Marks)

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- 8.4. State a serological test that may be useful for diagnosis mentioned in 8.1. (10 Marks)
- 8.5. Mention 2 specialized tests that will help to confirm renal lesion in this patient. (20 Marks)

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UNIVERSITY OF JAFFNA, SRI LANKA SECOND EXAMINATION FOR MEDICAL DEGREES—SEPTEMBR 2020 Pathology Paper II

70-yeax-old man is brought to the emergency unit after coughing up several table spoon of bright red blood_ For the last 3 months, he had a chronic nonproductive cough. More recently, he noticed some scant blood streaked sputum. Patient has smoked one pack of cigarettes per day for the past 35 years. He also complained increased fatigue, decreased appetite and weight loss in the past 3 months.

9.1. What is the most likely diagnosis?.

(O5marks)

9.2. List three (03) causes for haernoptysis other than you have mentioned in 9. 1. (15 marks)

9.3. List three (03) other different elinical presentations of the condition mentioned in 9.1.

(15 marks)

 List five (05) investigations that you would order to differentiate the conditions you have mentioned in 9.1 and 9,2, and indicate the expected findings, (20 marks)



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9.5. Outline the histological types of the condition you have mentioned in 9.1. (10 marks)

Physical examination of the patient revealed left sided pleural effusion and diagnostic thoracentesis was performed.

. .

9.6. List three (03) causes of pleural effusion.

(15 marks)

9.7 List five (05) tests that can be performed in the pleural fluid to differentiate the conditions mentioned in 9.6 and indicate the expected findings. (20 marks)

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## UNIVERSITY OF JAFFNA, SRI LANKA SECOND EXAMINATION FOR MEDICAL DEGREES—SEPTMBR 2020 Pathology Paper II

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10

The most likely diagnosis (05 marks),
 One risk factor l actiology (05 marks),
 One complication (05 marks) and
 The pathological changes (macroscopic and microscopic) (10 marks) that may occur in the following conditions.

- 10_1. A 70-old-year man presented to the surgical ward with acute retention of urine and was catheterized by the house officer. Digital rectal examination revealed a nodular firm prostate. The patient was subjected to ultrasound guided prostate needle biopsy_ Serum Prostate specific antigen level was 4.2 ngiml (0 to 5,0 nemL).
  - 1. Diagnosis: .....
  - 2. Risk factor / aetiologty · ···
  - 3. Complication: .....
  - 4. Pathological changes:



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10.2. A 50-year-old woman presented with Jaundice and new onset of abdominal swelling. Her history revealed a blood transfusion in the past. Ultrasound examination of the liver revealed irregular echogenicity demonstrating nodules. 1. Diagnosis:
2. Risk factor 1 actiologty:
3. Complication
4. Pathological changes:
10.3. A 35-year-old man admitted to the ward with a 1-day history of high fever. Examination revealed a new heart murmur. The patients is an intravenous drug user. 1. Diagnosis:
2. Risk factor / aetiologty
3. Complication:
4. Pathological changes:
S.

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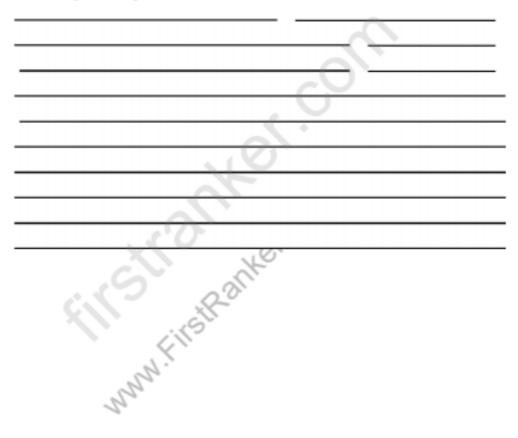
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## UNIVERSITY OF JAFFNA, SRI LANKA SECOND EXAMINATION FOR MEDICAL DEGREES—SEPTEMBR 2020 Pathology Paper H

10.4 A 55-year-old man presertted with progressive dysphagia for solid & liquid. The patient's

past medical history reveals severe gastro -esophageal reflux disease_

- 1_ Diagnosis: .....
- 2. Risk factor I aetiologty:
- 3. Complication: .....
- 4. Pathological changes:





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