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

NSW	6.09.2020. Time: 03 ER ALL THE 10 QUESTIONS the answers in the given space below each question.	Time: 03 hours	
	1. A 30-year-old man who was a chronic, alcoholic from young age, with history of recurrent left hypochondria! and epigastric abdominal pain back with nausea and sometimes vomiting over the past 10 years, precoma to the Accident and emergency. He was rehabilitated from alcohole dependency 2 years ago and maintains abstinence. On admission his blood glucose was >28rnmol / L.	radiating to sented with hol	
1.1.	What is the most likely diagnosis?	(05 Marks)	
1.2.	What can be the aetiology for the condition you mentioned in 1.1?	(05 Marks)	
1.3.	Outline the pathophysiology behind this diagnosis mentioned in 1.1.	(20 marks)	
1.4.	List four (04) biochemical tests you will perform in this patient at this situation the expected findings. 1	on and give (40 marks)	
	3		
1.5.	Name one (01)non biochemical investigation that you will perform to con-	nfirm the	
	aetiology which you mentioned in 1.2.	(10marks)	



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1.6. is u	Outline four (04) long term complications that may occur if the condition mentioned in 1.1 incontrolled for a longer period. (20 Marks)
	1
	3
	3
	4



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List the factors	required for haemopoiesis and indicate one	e disease which relates to
defects in each		e disease which relates to (15)
		(
	 :	
Briefly outline	"haemonojesis in natients with thalassae	emia major" (25 ma
Briefly outline	e "haemopoiesis in patients with thalassae	emia major". (25 ma
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Briefly outline	e "haemopoiesis in patients with thalassae	emia major". (25 ma
	e "haemopoiesis in patients with thalassae	
List four (04) to	ests useful to assess haemopoiesis and expect	ted results hi anaemia due t
List four (04) to		



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	A 68- year-old man was admitted to Teaching Hospital Jaffna with a severe iron deficiency anaemia (IDA).	cimical 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 mar)
3.2	Outline the expected automated full blood count (FBC) report in IDA.	(25 mar
	23/1	
3.3.	Statefive (05) different questions you would ask from the patient to ascertain underlying	
	causeis for iron deficiency.	(15 marks)
	1	
	I -	_
	3	



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how you would monitor response to therapy.	(15)

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	A 35-year-old man presented to the surgical clinic of Teaching hospital Jamultiple sinuses in the perianal region for 6 months duration.	<u>H</u> a with
4,1	List three (03) possible causes for the given clinical presentation, 1 1	
4.2.Br	iefly describe the pathogenesis of any one cause mentioned in 4.1.	(25 Marks)



Eg.	
3)	
Eg	
4)	
Eg.	CO'
Name three (03) samples/tests that can be done	to arrive at a diagnosis in this patie (15
1	(13
2	
3	
Name one (01) special stain used in the laborator	ory to identify etiological agent in cl
inflammation.	(05



_		UNIVERSITY OF JAFFNA, SRI LANKA SECOND EXAMINATION FOR MEDICAL DEGREES—SEPTMBR 2020 Pathology Paper II
5.		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 1
		1
		Disadvantage:
	5.3.	List Eve (05) pathological conditions that may be encountered in the patients of the above age range. (25 Marks)
		1
		2
		3
		4
		5



What is your r	ecommendation	if the surged	on requests to	consider to in	clude hormon
	ecommendation the same clinic visi		on requests to	consider to in	clude hormon (10 Ma
			on requests to	consider to in	
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molecular testing in	the same clinic visi	1?			(10 Ma
molecular testing in		1?			(10 Ma
molecular testing ir	the same clinic visi	1?			in breast cance



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	Briefly explain the following.	
1.	Pathogenesis of acute appendicitis.	(20 Mark
2	Systemic effects of neoplasia.	(20 Mar
	Use oflaboratory tests in cancer diagnosis.	(20 Mar)
	-	



Pathogenesis of multinodular colloid goiter.	(20 ma
Presence of brown pigment in tissues.	(20 m
-Milia	



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



Briefly explain the risk factors of atherosclerosis,	(30 N
Briefly describe the pathogenesis of atherosclerosis.	(30 N
Briefly describe the pathogenesis of atherosclerosis.	
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Briefly describe the pathogenesis of atherosclerosis.	
Briefly describe the pathogenesis of atherosclerosis.	
	(30 N







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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)
8.2.	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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index nu	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. marks}	List three (03) causes for haernoptysis other than you have mentioned in 9. 1. (15
9.3.	List three (03) other different clinical presentations of the condition mentioned in 9.1. (15 marks)
	Sin
9.4.	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)



Physical examination of th	ne patient revealed left sided	I pleural effusion and	1
diagnostic thoracentesis wa		picarai cirasion and	
List three (03) causes of plea	ural effusion.		(15 m
-			
List five (05) tests that can	he performed in the pleural	fluid to differentiate	the con
List five (05) tests that can mentioned in 9.6 and indic	be performed in the pleural cate the expected findings.	fluid to differentiate	
		fluid to differentiate	
		fluid to differentiate	
		fluid to differentiate	e the con (20
mentioned in 9.6 and indic	cate the expected findings.	fluid to differentiate	
mentioned in 9.6 and indic		fluid to differentiate	



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0.	Mention
	 1.The most likely diagnosis (05 marks), 2.One risk factor l aetiology (05 marks), 3.One complication (05 marks) and 4.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:
	3. Complication: 4. Pathological changes:



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 aetiologty:
3. Complication
4. Pathological changes:
4. I uniological 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:



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

- 1	A 55-year-old man presertted with progressive dysphagia for solid & liquid. The patien past medical history reveals severe gastro -esophageal reflux disease_
	1_ Diagnosis:
	2. Risk factor I aetiologty:
	3. Complication:
	4. Pathological changes:
	Sailte.
	MMN.FilestRanke.