

Firstranker's chountversity of Jaffna SRI Lanka SECOND EXAMINATION FOR MEDICAL DEGREES—SEPTEMBER 2021 Pathology Paper II

Date: 08.09.2021.	Time: 03 hours	
ANSWER ALL THE 10 QUESTIONS Write the answers in the given space below each question.		
01. A 67- year - old male presented to the chest clinic with prosecutive scanty sputum. He also had pain on the left lateral aspect breathing. The Computerized Tomography (CT) scan revorted the pleura and fluid collection. 1.1. Name five (05) samples that may be obtained in responsible purposes.	of his chest when realed diffuse thickening	(15 Marks)
1.2. State five (05) macroscopic features that must be assurature of pleural fluid.	sessed to determine the (1	5 Marks)
1.3. List five (05) causes of pleural effusion.		(15 Marks)
1.4. State the three (03) types of characteristic effusions to of the conditions mentioned in 1.3.	that may occur in any	(15 Marks)



1.5. Briefly mention the pathogenesis of pleural fluid formation in any of the	(40 Marks)
two conditions mentioned in 1.3.	
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an eight hour history of Clinical diagnosis of o	resented to the Accident & Emergency department with of severe right upper quadrant pain and vomiting.	
2.1. List five (05) risk	factors for gall stone formation?	(10 Marks)
2.2. Briefly explain th	ne pathogenesis of gallstone formation?	(20 Marks)
		· · · · · · · · · · · · · · · · · · ·
	mmon types of gallstones?	 0 0 Marks)
2.4. Briefly describe t	the pathogenesis of acute cholecystitis?	(30 Marks)



2.5.	List three (03) ultra sound scan features of acute cholecystitis?	(15 Marks)
2.6. L	ist three (03) the complications of acute cholecystitis?	(15 Marks)
2.6. L	ist three (03) the complications of acute cholecystitis?	(15 Marks)
2.6. L		(15 Marks)



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index number: UNIVERSITY OF JAFFNA. SRI LANKA SECOND EXAMINATION FOR MEDICAL DEGREES—SEPTEMBER 2021 Pathology Paper II 03. Mention 1. The most likely diagnosis (05 marks), **2.0ne** risk factor / aetiology (05 marks), 3.0ne complication (05 marks) and 4. The pathological changes (macroscopic and microscopic) (10 marks), that may occur in the following conditions. 3.1. A 65 — year - old man presented to the surgical ward with acute retention (25 Marks) of urine and was catheterized by the house officer. Digital rectal examination revealed a smooth prostate and his recent PSA was normal. 1. Diagnosis: 2. Risk factor 1 aetiology: **3.** Complication: 4. Pathological changes: 12 ______ 3.2. A 10-year-old boy developed facial swelling, reduced urine output and (25 Marks) cola coloured urine. Urinalysis revealed proteinuria and haematuria. 1. Diagnosis: 2. Risk factor 1 aetiology: 3. Complication: 4. Pathological changes:



3.3. A	65 — year - old man admitted to the ward with loin pain, haematuria and (25 ballotable kidney. CT scan revealed right side heterogeneously enhancing	Marks)
	10 cm renal mass,	
	1. Diagnosis:	
	2. Risk factor aetiologty:	
	3. Complication:	
	4. Pathological changes:	
3 4 A	55 — year - old man presented with painless visible haematuria and	(25 Marks)
J. 1. 11	flexible cystoscopy revealed a 3cm bladder growth.	(23 Marks)
	1. Diagnosis:	
	_	
	2. Risk factor / aetiologty:	
	3. Complication:	
	4. Pathological changes:	



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04. An infant presented with failure to thrive. Examination revealed pallor and		
hepatosplenomegaly. Thalassaemia major was suspected. 4.1. Outline the pathological basis of anaemia in thalassaemia.	(25 Marks)	
	()	
4.2. Outline the basis for hepatosplenomegaly in thalassaemia.	(10 Marks)	
The state of the s	(1 1 1 1	
4.2 Describe the sense of the fine and a divide blood materials at the lease sense of	(15 Montra)	
4.3. Describe the expected findings in red cells in blood picture in thalassaemia (major.	15 Marks)	
4.4. Describe the findings of the confirmatory test capillary electrophoresis or	(15 Marks)	
high performance liquid chromatography in thalassaemia major.		
4.5. State the expected findings in capillary electrophoresis or high	(10Mark.\$)	
performance liquid chromatography in parents of this infant.		



4.6. Outline the findings in red cell parameters expected in full blood count of parents of this infant.	(I 0Marks)
4.7. Management of thalasaemia need blood transfusions.	(15 Marks)
List four (04) acute complications of blood transfusion.	
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67 — year - old male presented with high fever, pallor and gum bleeding. Acute leukemia was suspected.	(15 M
5.1. State the blood picture findings expected in acute leukemia.	
	ı
	(20 N/I
5,2. Outline the pathological basis for high fever.	(20 M
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\(\(\mathcal{O}\)	
53. Outline the pathological basis for gum bleeding.	(20 M)
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	_
5A. State how would you confirm the diagnosis of acute leukemia.	(20 M
	•
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5.6. List one (01) test that will be useful to assess the bone marrow activity and 0 °N indicate the expected findings in increased haemopoiesis.	Marks)

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SECO	UNIVERSITY OF JAFFNA, SRI LANKA. OND EXAMINATION FOR MEDICAL DEGREES—SEPTEMBR 1 Pathology Paper H	
in the	year -old male diabetes patient sustained a laceration while cleaning tools be garden shed. Two days later he developed fever with chills and pus arge from the wound and was admitted to the hospital. The house officer that his BP was 80/60 mrn. Hg and PR was110 beats/min.	
6.1. I	Define shock.	(10 Marks)
6.2. S	state three (03) types of shock and indicate the principal mechanism operate in each type.	(30 Marks)
6.3. V	What is the type of shock that may have occurred in this patient?	,
		(05 Marks)
6.4. N	Mention two (02) causes for each type mentioned in 6.2.	(15 Marks)
	Mention the laboratory tests you would order to evaluate the patient, and	(2025.1.)
6.5.	indicates the usefulness and expected findings of the tests.	(30 Marks)
	1	
	2	
	3	
	4	
	5	



7	
8	
9	
10	
6.6. Mention the pathological changes that may be seen in the liver and the	(10 Marks)
lungs of this patient.	
Liver:	
Lungs:	



SECC	UNIVERSITY OF JAFFNA, SRI LANKA OND EXAMINATION FOR MEDICAL DEGREES—SEPTEMBER 2021 Pathology Paper II	
lump inves	5-year-old woman presented to the surgical clinic with a painless right breast of three months duration. After the clinical assessment and radiological stigation, she has undergone a core biopsy from the lump. Histology revealed cancer of breast.	(10.14.1.1)
7.1.	List ten (10) risk factors associated with breast cancer.	(10 Marks)
7.2.	Briefly mention the advantages of doing core biopsy than Fine needle aspiration cytology	(10 Marks
7.3.	What would be the most common histological report in this lady?	(05 Marks
7.4.	Mention the other histological types of breast cancer ?	(10 Marks
7.5.	List the common sites of metastatic deposits of breast cancer?	(10 Marks
		`
7.6.	What do you understand by "histological grade or Nottingham grade of breast cancer"?	(15 Marks



7.7. Briefly describe the staging system of breast cancer.	(25 Marks)
7.8. Indicate the significance of sentinel lymph node biopsy in breast cancer?	(15 Marks)
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08.	
8.1. A 30- year-old woman presented to the endocrine clinic with primary subfertility, menstrual disturbances and milky discharge from nipples. On examination she was found to be obese and had visual field defects (bitemporal hemianopia). 8.1.1. Mention the most probable diagnosis.	
812. Mention the reason for the development of bitemporal hemianopia in this patient.	(10 Marks)
8.1.3. List three (03) important hormone tests you will do in this patient and indicate the expected findings.	. (05 Marks) . (15 Marks)
8.2. A 40 — year —old woman complained that she is gaining weight and feels tired. On examination she was found to have moon face, central obesity and abdominal striae.	
8.2.1. Mention the most probable di agnosi s	(05 Marks)
8.2.2. Mention one (01) aetiological factor you should exclude in the history.	(05 Marks)
8.2.3. Mention one (01) first line endocrine test (non-dynamic).that.you will do in this patient.	. (10 Marks)
8.2.4. Mention one (01) dynamic function test that you will do as a first line test in this patient.	(10 Marks)
82.5_Briefly explain how you will perform the test mentioned in 8:2:4:	` ′
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8.2.6. List four (04) causes for abnormal results of the test you mentioned in 8_2.4.	(20 Marks)

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UNIVERSITY OF JAFFNA, SRI LANKA SECOND EXAMINATION FOR MEDICAL DEGREES—SEPTEMBER 2021 Pathology Paper 11		
lower quadrant abdoming patient noted intermittent months associated with a diarrhea was typically noted asymptomatic periods for noted over this period. It presentation was inflamed 9.1. List five (05) oth	sented to the emergency department with severe right nal pain, and abdominal bloating and distension. The nt mild blood and mucus diarrhea on and off for the past 6 abdominal pain and low-grade fevers of 101 F. The octurnal or postprandial. There was an intervening or a few weeks. 5 Kg of unintentional weight loss was aboratory workup supported that the cause for the matory bowel disease. The possible causes for the above presentation.	(05 Marks)
Endoscopic exam	o proceed with lower gastrointestinal encloscopy. nination and histology findings of the biopsy confirmed the presentation was Crohn's disease.	(05 Marks)
	factors for Crohn's disease.	
1 34 5		
0.2 Montion the ended	ania factures of Crobals disease	(20 Morks)
9.5. Mention the endos	copic features of Crohn's disease.	(20 Marks)



9.4. Mention how the endoscopic features of the Ulcerative colitis differ from above findings?	(20 Marks)
9.5. Mention the microscopic features which confirm the diagnosis of Crohn's (20 disease.	marks)
9.6. Mention how the microscopic features of the Ulcerative colitis differ from (20 above findings?) Marks)
9.7. Mention the complications of Crohn's disease.	(10 Marks)



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10.3. A 62 year_old male was admitted to the cardiology unit. Electrocardiogram revealed an acute myocardial infarction. 10.3.1. Symptoms.	05 marks)	(25 Marks)
10.3.2. Risk factors.	05 marks)	
10.3.3. Complications. (0	05 marks)	
	10 marks)	
10.4, A 49 - year - old female admitted to the gynecological ward. Trans	vaginal (25	Marks)
ultrasound revealed endometrial cancer	vuginar (20	Triarito)
.10	05 marks)	
10.4.2. Risk factors.	05 marks)	
	05 marks)	
10.4.4. Gross appearance. (1	0 marks)	