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Date: 15.12.2021

UNIVERSITY OF JAFFNA, SRI LANKA

SECOND EXAMINATION FOR MEDICAL DEGREES

Part II (2nd) 2015/2016 (39th batch) Pathology-Paper II

O) I	ALTIMENTAL
	9 am to 12pm. (3 hours)

AN	SWER .	mber:	
₩ r	ite the a	answers in the given space below each question.	
1.		year- old diabetic female admitted with fever and right loin pain. She was osed as having right side pyelonephritis.	
	1.1.	List 5 investigations you will do in this patient.	(15 Marks)
		2	
		3	
		4	
		5	
	1.2.	List 5 possible risk factors to develop above condition.	(15 Marks)
		2	
		3	
		4	
		5	
	1.3.	State the most likely microorganism causing this condition.	(10 Marks)
	1.4.	List 3 clinical features to differentiate this condition from lower urinary tract infection (Cystitis).	(15 Marks)
		1	
		2	
		3	
	1.5.	List 3 complications of acute pyelonephritis.	(15 Marks)
		2	
		3	

Briefly describe the macroscopic and microscopic changes of acute	(30 marks)
pyelonephritis.	
	pyelonephritis.



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	CX II UI	mver:
2.	Answe	er all the following questions
	2.1.	A 45- year- old obese woman presented to the surgical clinic with retro- sternal pain for 2 months. Upper gastro intestinal (GI) endoscopy revealed (25 Marks)
		abnormal red mucosa at the distal oesophagus and surgeon has told that it
		is a premalignant condition.
		1. The most likely diagnosis (05 marks):
		2. One risk factor (05 marks):
		3. One complication (05 marks):
		4. The pathological changes (macroscopic and microscopic) (10 marks):
	2.2.	A 65 –year- old farmer admitted to surgical ward with progressive (25 Marks) dysphagia with loss of weight. His upper GI endoscopy revealed growth at mid oesophagus (30cm from incisor teeth). 1. The most likely diagnosis (05 marks):
		2. One right factor (05 marks):
		2. One risk factor (05 marks):
		3. One complication (05 marks):
		4. The pathological changes (macroscopic and microscopic) (10 marks):

	2.3.	A 55 -year -old banker presented with epigastric pain for 3 months and melaena (25 Marks) for 2 days. His upper GI endoscopy revealed an ulcer at first part of the duodenum.	7
		1. The most likely diagnosis (05 marks):	
		2. One aetiology (05 marks):	
		3. One complication (05 marks):	
		4. The pathological changes (macroscopic and microscopic) (10 marks):	
		,	
	2.4.	A 65 -year- old retired teacher admitted with loss of weight, loss of appetite and epigastric discomfort for 2 months. Upper GI endoscopy revealed a 4 cm growth at lesser curvature of stomach. 1. The most likely diagnosis (05 marks):	
		2. One aetiology (05 marks:	
	1.	3. One complication (05 marks):	
		b. One complication (05 marks).	
		4. The pathological changes (macroscopic and microscopie) (10 marks):	
A CONTRACTOR	and the same		
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right l	ung.	
3.1.	Mention the most likely diagnosis.	(05 marks)
3.2.	List four (04) laboratory investigations you will perform in this patient and indicate the expected findings.	(20 Marks)
	<u>Investigations</u> <u>Expected findings</u>	
	1	
	2	
	3 4	
3.3.	List five (05) predisposing factors for the occurrence of the condition mentioned in 3.1.	(20 Marks
	2	
	3	
	4	
	5	
3.4.	Mention the gross appearance of the lung of this patient.	(30 Marks

3.5.	Mention five (05) complications of the condition mentioned in 3.1.	(25 Marks)
	1	
	2	
	3	
	4	
	5	





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		The state of the s
	-year- old female presented with a solitary thyroid nodule. Investigations aled thyroid cancer. She has undergone a total thyroidectomy.	
4.1.	Mention the most possible type of thyroid cancer in this patient.	(05 Marks)
4.2.	List different types of thyroid cancer and mention their cell of origin.	(25 Marks)
4.3.	List five risk factors for thyroid cancer.	(15 Marks)
	1	
	2	
	3	
	4	
	5	
4.4.	Outline the standard mode and sites of metastasis of each thyroid cancer.	(25 Marks)
4.5.	Mention the investigations that helped to arrive at a diagnosis in the patient.	is (10Marks)

4.6.	Briefly explain the classification system to describe the thyroid cellula analysis?	ar (10Marks)
4.7.	Give two tumour markers that will help to assess thyroid cancer?	(10Marks)
4.7.		(TOWARS)
	1	
	2	





SECOND EXAMINATION FOR MEDICAL DEGREE\$ *

Part II (2nd) 2015/2016 (39th batch) Pathology-Paper II

Date: 15.12.2021 9 am to 12pm. (3 hours)
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and b mostl digita obstra	nation, he was found to have dehydration with heart rate of 108 beet / min. lood pressure of 80/50 mmHg; grossly distended abdomen with tenderness y in the central abdomen; absence of bowel sounds and empty rectum on I rectal examination. 'X' – ray abdomen showed features of small bowel action. As he had clinical features of strangulation of bowel it was decided emergency laparotomy.	
5.1.	Mention the most possible cause for intestinal obstruction in this patient?	(10 Marks)
5.2.	List four (04) causes for intestinal obstruction in adults other than mentioned in 5.1.	(20 Marks)
	2 3	
5.3.	4	(40 Marks)

5.4.	Define gangrene.	(10 Marks)
5.5.	During the follow up he was found to have short bowel syndrome. Define short bowel syndrome?	(10 marks)
5.6.	Mention the features of short bowel syndrome.	(10 marks)





SECOND EXAMINATION FOR MEDICAL DEGREES

Part II (2nd) 2015/2016 (39th batch)
Pathology-Paper II

	-	Patholo	ogy-Paper II	The state of the s
Date	e: 15.12	2.2021	9 am to 12pm. (3 ho	ours) DICINE
Ind	ex nu	nber:		
6.	died a fractu withir	fter 12 hours. The following were res and lacerations of the lungs an a branch of the left pulmonary a		
	6.1.	Mention the features that di thrombus or postmortem clot.	fferentiate the clot as an ante-mortem	(20 Marks)
	6.2.	Define thrombosis.		(10 Marks)
			•••••••	
	6.3.	Mention the fate of a thrombus		(20 Marilan)
				(20 Marks)
	6.4.		ors and three (03) predisposing conditions	(30 Marks)
		for each key factors involved in		
		Key factors	Predisposing conditions for key factors	• • •
		1		
		•••••		
			3	

	31		
		2	
		3	
6.5.	Mention two (02) factors which affe	ect the healing of fracture.	(10 Marks)
			(0 % 3 % 1°)
6.6.	Mention two (02) complications of t	fracture.	(05 Marks)
6.7.	Mention the type of healing which r	nay occur following a laceration	(05Marks)
	violation the type of healing which i	may occur following a facciation.	,





7.

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SECOND EXAMINATION FOR MEDICAL DEGREES

Part II (2nd) 2015/2016 (39th batch) Pathology-Paper II

A 45 - year-old man presented to the hospital with altered level of consciousness.

Date: 15.12.2021 Index number: 9 am to 12pm (3 hours)

appet exam	rife informed that he was a chronic alcoholic and recently had loss of ite, weight loss, nausea, occasional vomiting and getting tired easily. On ination he was found to have lowered level of consciousness, jaundice and ided abdomen.	
7.1.	List three (03) possible differential diagnosis.	(15 Marks)
	1	
	2	
	3	
7.2.	List five (05) blood tests to be done in this patient and indicate the changes	(30 Marks)
	1	
	2	
	3	
	4	
	5	
7.3.	List two (02) possible radiological investigations that can help in the diagnosis.	(10 Marks)
	2	
7.4.	Briefly explain the macroscopic and microscopic features of the liver that is expected in this patient.	(45 Marks)
	Macroscopic features:	

I	Mici	rosc	copi	c fea	atur	es:								
	• • • • •		••••					••••	<i></i>	••••	 	••••	• • • • •	••••
			7											
•							• • • • •			• • • • •	 		• • • • •	• • • • • •
		100.1							ore and are					





SECOND EXAMINATION FOR MEDICAL DEGREES

Part II (2nd) 2015/2016 (39th batch)

Pathology-Paper II Date: 15.12.2021 9 am to 12pm. (B hours) Index number: 8. Answer all the following questions Fibrocystic change of the breast. 1.Two (02) clinical features (05 marks): 2. Two (02) gross and two (02) microscopic features (16 marks): 3. Two (02) diagnostic methods (04 marks): Invasive Ductal carcinoma of breast. 8.2. (25 Marks) 1.Two (02) clinical features (05 marks): 2. Two (02) gross and two (02) microscopic features (16 marks): 3. Two (02) diagnostic methods (04 marks):

8.3.	Leiomyoma of the uterus.	(25 Marks)
	1.Two (02) clinical features (05 marks):	
	2. Two (02) gross and two (02) microscopic features (16 marks):	
	3. Two (02) diagnostic methods (04 marks):	
8.4.	Acute rheumatic fever	(25 Marks)
	1.Two (02) clinical features (05 marks):	
	2. Two (02) gross and two (02) microscopic features (16 marks):	
	3. Two (02) diagnostic methods (04 marks):	





9.

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SECOND EXAMINATION FOR MEDICAL DEGREES

Part II (2nd) 2015/2016 (39th batch) Pathology-Paper II

An adult male was suspected to have Vitamin B 12 deficiency anaemia.				
9.1.	State two (02) questions you would ask from this patient to support the diagnosis of vitamin B 12 deficiency and indicate the reasons to ask those questions. 1	(15 Marks)		
	2			
9.2.	State the findings of the following tests which favour the diagnosis of vitamin B 12 deficiency. 1. Full Blood Count.	(20 Marks)		
	1. Full Blood Count.			
	2. Blood picture			
0.2				
9.3.	Outline the pathological basis of anaemia in Vitamin B 12 deficiency.	(30Marks)		
	•••••••••••••••••••••••••••••••••••••••			
9.4.	Compare and contrast the Vitamin B12 deficiency with folate deficiency.	(20 Marks)		
	•••••••••••••••••••••••••••••••••••••••			
	•••••••••••••••••••••••••••••••••••••••			

9.5.	Describe Vitamin B 12 absorption.	(15Marks)





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Part II (2nd) 2015/2016 (39th batch) Pathology-Paper II

Date: 15.12.2021 9 am to 12pm. (3 hours).

Index number:

10.	Haem	olytic anaemia is a heterogenous group of disorders.	
	10.1.	Outline the classification of haemolytic anaemia with examples.	(20 Marks)
	10.2.	Describe the pathological basis of haemolysis in one type of haemolytic anaemia.	(15 Marks)
	10.3.	Briefly explain the pathological basis of jaundice in haemolytic anaemia	(20 Marks)
	10.4.	Briefly explain the pathological basis of organomegaly in haemolytic anaemia.	(15Marks)
		••••••	

10.5.	State three (03) key laboratory tests and expected finings in haemolytic anaemia.	(15Marks)
10.6.	Outline how you will confirm the diagnosis of one type of haemolytic anemia.	(15Marks)

