UNIVERSITY OF JAFFNA, SRI LANKA SECOND EXAMINATION FOR MEDICAL DEGREES PART II-DECEMBER 2010 PATHOLOGY Paper II

Date: 15.12.2010.

ANSWER ALL THE TEN QUESTIONS

Time: 03 hours

		QUESTION in separate answer book				
1.		1.3. List 4 complications of bronchiectasis.				
2.		ient has an enlarged nodular liver and is diagnosed as having cirrhosis. He as ascites. Describe briefly the pathophysiological basis of, 2.1.1 Ascites in cirrhosis. Nodularity of the liver in cirrhosis. List 3 investigations that would help to establish the aetiology of cirrhosis, stating briefly how each investigation would help. List two investigations that would help to assess the liver functions. List two investigations that you would carry out on the peritoneal fluid of this patient.	(25 Marks) (25 Marks) (30 Marks) (10 Marks) (10 Marks)			
3.	3.1.3.2.3.4.	Define Nephrotic Syndrome. List the investigations that are useful in a patient with Nephrotic Syndrome. What are the possible histopathological lesions of glomeruli seen in Nephrotic Syndrome? List the causes of Membranous Glomerulonephritis.	(20 Marks) (20 Marks) (30 Marks) (30 Marks)			
4.	4.1.4.2.4.3.	Write an account on Pathogenesis of acute rheumatic fever. Pathogenesis of acute myocardial infarction. Pathogenesis of infective endocarditis.	(40 Marks) (30 Marks) (30 Marks)			

5.	A 73 year old man was admitted to hospital with the history of passing blood and
.	mucous per rectum of two months duration. Sigmoidoscopy showed a polyp in
	his sigmoid colon. Endoscopic biopsy revealed villous adenoma with severe
	dysplasia. Sigmoid colectomy was done. Microscopy showed Adenocarcinoma,
	Dukes Stage B.
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5.1.	Define the term "Intestinal Polyp".	(10 Marks)
5.2.	List the classification of intestinal polyps according to the aetiological	(20 Marks)

basis.

Briefly describe what is meant by "adenoma - carcinoma sequence". (20 Marks)

List the factors which influence the malignant risk of adenomas in (20 Marks) intestine.

Briefly describe the prognostic indicators of colorectal carcinoma.

List the different aetiological agents responsible for causing acute 6.1. 6. (25 Marks) pyogenic meningitis in different age groups. (25 Marks)

Describe the macroscopic and microscopic changes in the cerebrospinal 6.2. fluid in,

(25 Marks) Pyogenic meningitis

6.2.2 Tuberculous meningitis

(25 Marks) (25 Marks) Viral meningitis 6.2.3

A 70 year old vegetarian presents with shortness of breath on exertion. On examination he is pale. He also complains of paraesthesia. His preliminary investigations showed:

Hb - 7 g/dl

 $WBC - 4,500/mm^{3}$

 $Platelets - 150,000/mm^3$

He is suspected to have megaloblastic anaemia.

List 2 abnormalities that you would see in the blood picture of this patient?

List 3 investigations you would do in this patient to confirm his 7.2. diagnosis?

State the expected findings of the investigations that you mention in 7.2. 7.3.

Briefly state the pathogenesis of his megaloblastic anaemia. 7.4.

How would you treat this patient? 7.5.

(10 Marks)

(30 Marks)

(15 Marks)

(15 Marks)

(50 Marks)

(10Marks)

8.	A 5 year old child presents with fever of 5 days duration. On examination he is								
	found to be pale, febrile and has petechiae over his abdomen. He is suspected to								
	have Acute Leukaemia.								
		THE CHIEF	main abnormalities that you would see in a full blood count of ?	•					
	8.2.	List the r child?	nain abnormalities that you would see in a blood picture of this	(15 Marks)					
	8.3.	What are	the main types of acute leukaemia?	(10 Marks)					
	8.4.	What is to in this ch	he most common type of acute leukaemia that you expect to see ild?	(05 Marks)					
	8.5.		ethods are available for differentiating the types of leukaemia mention in 8.4?	(15 Marks)					
	8.6. 8.7.		ner physical signs that you would look for in this patient. xplain the reasons for,	(15 Marks)					
	••••	-	Petechiae	(10 Marks)					
			Pallor	(10 Marks)					
9.		A patient underwent cholecystectomy for cholecystitis.							
	9.1		acroscopic features help the surgeon to differentiate the acute	(35 Marks)					
	0.2	_	titis from chronic cholecystitis? escribe the pathological sequalae of acute cholecystitis	(50 Montra)					
	9.2. 9.3.	•	escribe the pathological sequalae of acute choiceystins e investigations with interpretations to aim the biochemical	(50 Marks)					
	9.3.		s of Obstructive Jaundice.	(15 Marks)					
		aragnosia	or obtituotivo suuridioo.						
10.	10.1.	of thyroi	Needle Aspiration Cytology (FNAC) reports of solitary nodule id from two Patients revealed "Follicular Neoplasm" and y Carcinoma" respectively.						
		10.1.1.	Describe the microscopic features of Follicular carcinoma of the thyroid in a tissue biopsy	(25 Marks)					
		10.1.2.	Describe the microscopic features of Papillary carcinoma of the thyroid in a tissue biopsy	(25 Marks)					
		10.1.3.	Based on the microscopic features mentioned in 10.1.1 and 10.1.2 describe why papillary Carcinoma can be diagnosed on FNAC, but diagnosis of Follicular carcinoma needs tissue biopsy	(20 Marks)					
	10.2.	Enumera	te the Para-neoplastic presentations of Renal Cell Carcinoma	(30 Marks)					
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