

UNIVERSITY OF JAFFNA, SRI LANKA SECOND EXA.MINATION FOR MEDICAL DEGREES (2 nd).-DEC 2020 Pathology Paper II

Date: 16.	12.2020	Time: 03 hours
ANSWE	R ALL THE 10 QUESTIONS	
Write th	e answers in the given space below each question.	
	s a common clinical manifestation. Based on underlying patholo	
	ified in to anaemia due to marrow under production, anaemia du	ie to excessive red
cell dest	ruction and anaemia due to acute blood loss.	
1.1.	Define anaemia.	(10 marks)
1,2.	State key characteristics in each group of anaemia stated about	ove. (20 Marks)
	1	
	2	
	3	
	ilen	
1.3.	List different categories of disorders falling in to marrow un	derproduction
	group of anaemia.	(15 Marks)



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		_
Outline the manifestation	s you would expect in sev	ere uricompensa:
anaemia in an infant.		
	-	
	. 6	
Briefly outline red cell cha	racteristics you can observ	e in anaemia due t
excessive red cell destruction.		(15
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	To.	
(6)	036	



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1.	Outline the pathogenesis of CML.	(20 marks)
.2.	State the blood picture findings expected in CML.	(15 marks
	(2)	
	· 10.	
.3.	Patient was treated for one year and CML progressed to acute leukemia (AML). State how you would confirm the diagnosis	myeloid of AMI
	reascanta (AME). State now you would commit the diagnosis	(15mar



2.4.2. Fever in AML.	(10
2.4.3 Organornegaly in AML.	(1:
2	
S SILL	
120	
Outline the investigations useful to manage AML.	(1:
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3.1.	month and the dysphagia is worse for solids compared to liquids. That is the most likely diagnosis?	(10 marks)
3.2,	List 2 different histological type of above condition.	(10 marks)
33.	List four (04) risk factors for each histological type mentioned	
	- O.	(20 marks)
		——
	No.	
3.4.	List the different macroscopic appearance of condition mention	n in 3.1.
		(10 marks)



ite one investigation	which will confirm your d	iagnosis. (I
		_
ite the reasons for p	rogressive dysphagia and m	ore dysphagia to so
		(20
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-	ent surgical clinic by a primary care physician with positive fecal occult blood for evaluation.
4.1.	How would you further evaluate him? (05 marks)
Further	evaluation revealed a polyp at the upper rectum. Histopathotogy of the polyp
was rep	ported as adenomatous polyp with high grade dysplasia.
4.2.	What do you understand by the term dysplasia? (10 marks)
4.3.	Under the microscope how would you differentiate dysplasia from carcinoma? (05 marks)
	- Silv
and aft evaluat	hough follow up plan was informed to the patient, he has defaulted the follow up er 3 years of initial review he presented with bleeding per rectum. Further tion revealed a poorly differentiated adenocarcinorna of the rectum with a solitary asis in the left lobe of the liver.
4.4	Mention five risk factors for carcinoma of the rectum other than the family
4.4.	history.
4.4.	(10 marks
4.4.	(10 marks
4.4.	(10 marks







Explain the term poorly differe	entiated adenocarcinoma	(1
Explain the term poorty uniter	and additional mona.	(.
How did an adenornatous poly tur	n around an adenocarcinoma	
		(1
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Cal -		
Briefly describe the steps of sprea	ad of a rectal cancer to the li	ver. (20 n



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Briefly describe	the staging of rectal cancer.	(20 r
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	10)	
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Page 9 of 23





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5	
5.1	A 55- year -old man was found to have serum creatinine of 290 !mon (RR 60-115 Amon) on routine check-up at his General Practitioner's office. He was a known diabetic for the last 10 years and was not controlling his blood glucose level as expected. He was referred to the hospital nephrology clinic and serum creatinine was repeated after few days and was found to be 300 ja mon. Chronic kidney disease was confirmed with a renal biopsy later.
	5.1.1. His estimated glomerular filtration rate (eGFR) was 20.1 niLimin/1.73 m2. How will you grade chronic kidney disease using eGFR and in what chronic kidney disease grading is he in? (15 marks)
	Let con
	5.1.2. List five (05) blood investigations you will do in this patient and indicate the expected changes. (20 marks)
	2

Page 11 of 23



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Give the macroscopic and microscopic chang	es of kidneys in the fol
conditions. 5.2.1 Diabetes mellitus.	(40
	(
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10,	
7/10	
5.2.2 Calculi in the left renal pelvis.	(20 r
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6.1.	List one (01) laboratory (non-biochemical/ non-endocrine) test you will do i				
	this patient. (10 ms	arks			
6.2.	Total thyroidectomy was done and the histopathology report revealed	Total thyroidectomy was done and the histopathology report revealed a			
	papillary carcinoma of thyroid. Describe the microscopic features of pap	illa			
	carcinoma of thyroid. (40 n	ark			
		_			
		_			
		_			
	(3)				
	She developed tetany after few days postoperatively. Briefly describe t	he			
	patho g enesis of tetany in this patient. (20 m	ark			
		_			
		_			
		-			

Page 13 of 23



List one (01) biochemical test (no	on-endocrine) you will do in this pa
	e you will expect in the	
(10 marks)		
		, 6 -
		0
What preca	utions will you take v	when doing the test mentioned in 6
What preca	utions will you take v	when doing the test mentioned in 6
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7.1 A 50-year-old healthy man presented with sudden onset of fever with chills and rigor, and productive cough. Physical examination revealed stony dullness in **the** right lower zone. Auscultation revealed bronchial breathing in the right middle zone and, reduced air entry and inspiratory crackles in the right side of the lung.

7.1.1. Mention the most likely diagnosis? (05 marks)
7.1.2. Outline the pathophysiology of the following clinical features. 15 marks) I. Bronchial breathing on auscultation.
10)
Stony dullness on percussion.
7.50
Inspiratory crackles on auscultation.
7.1.3. List three (03) complications of the condition you mentioned in 7.1.1. (15 marks
2
3
7.1.4. List three (03) basic biochemical or radiological investigations you will perform in this patient and indicate the expected findings. (15 marks)

Page 15 of 23





A 65 — year-old man who admits to a 60-pack year smoking history, complains of fatigue and dyspnea with minimal exertion and a cough that is productive every morning throughout the year for last 2 years.
7.2.1 Mention the most likely diagnosis? (05 marks)
7.2.2 Outline the pathogenesis of the condition you mentioned in 7.2.1. (20 marks)
of colf.
7.23. List four (04) complications of the condition you mentioned in 7.2.1. (20 marks)
2
7.2,4. List two (02) risk factors other than smoking for the condition you
mentioned in 7.2.1. (05 marks)
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8 A 45-ye	earold woman, while recovering in bed several days after having an abd	ominal
surgery,	, develops an acute onset of chest pain and shortness of breath.	
On furt	rther questioning patient also revealed a 2-day history of a swollen and ten	der right
leg. On	n examination the patient appears anxious and tachypneic, but has good air	r
movem	ment in the lungs bilaterally.	
8.1.		05 marks)
0.2	Line (02)	
8.2.	List two (02) emergencies other than mentioned in 8.1 that may prese acute chest pain.	nt with
	(10 marks)	
	1	
	2	
8.3.	State the possible underlying mechanism for the condition you mention 8.1?	ned in 0 marks)
8.4.	Mention the pathogenesis and list three (03) risk factor for the develop	mont of
0.4.		
	the condition mentioned in 8.1.?	(30marks
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	No.	



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Briefly mention the reason for swelling	of the right leg of this patie
	(15
List two (02) conditions which	may be associated with bilateral leg
	may be associated with bilateral leg nechanism for the swelling in each con
and mention the underlying n	



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A 40-year-old man is being e	evaluated as a new patient complains of se
	e a blood pressure of 170/95mm Hg
	or high blood pressure in this patient. (20
1	
2	
3	
4	
9.1.2. Mention the effects of	hypertension on blood vessels and heart.
1.B loodves s el s	
	73- "
-0	, 0
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Page 19 of 23





A 63-year-old man experience extremities, One week back howeakness lasting a few minute those episodes. Previously, he angina relieved by rest.	e had experienced severa es, but he had recovered	al episodes of left-sided function after each of
9.2.1. Mention the most likely	/ diagnosis?	(10 marks)
9,2.2, Mention the underlying	mechanisms associated	
mentioned in 9.2.1?		(10 marks)
	9	
9.2.3. List four (04) risk facto	rs other than Hypertensic	on for developing the
9.2.3. List four (04) risk facto		on for developing the
9.2.3. List four (04) risk facto		
	condition ment	
1	condition ment	tioned in 9.2.1?(20 marks)
1 2	condition ment	tioned in 9.2.1?(20 marks)





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10

A 25-year-old man complains of swelling of the i	
as noted for approximately 1 month. There is no	history of trauma to the area
and he has no medical problems. On examination	on, there is a 5-cm firm,
ontender lump inside the right hemi scrotum.	
10.1.1. Mention the most likely diagnosis?	(10 marks)
10.1.2. Briefly mention the histological types of t	the diagnosis you mentioned
above.	
	(15 marks)
OIL	
- Chi	
20	
A 21-year-old nulliparous woman has a 9-cm rig	ght adnexal mass that on
altrasound appears cystic and solid.	
10.2.1. Mention the most likely diagnosis?	(10 marks)
10.2.2. Mention the morphological appearance of	f the condition you mentioned
above.	(15 marks)





A 7-year-old child presented with oliguria, haematuria, oeder renal function. His past history revealed a sore throat 10 days.	-
10.3.1. Mention the most likely diagnosis?	(10 m
10.3.2. Mention three (03) investigations you will perform in this indicate the expected findings.	n patient (15 ma
A 65-year-old woman complains of soreness and oozing from	n the nipple
left breast. There is no history of trauma. On examination, the	ere is fissurin
ulceration of the areola and nipple, and a palpable lump belo	w the areola
region.	
10.4.1. Mention the most likely diagnosis?	(10 n
E.R. all	
10.4.2. List three (03) risk factors for the condition you men	tioned above
10.4.2. List three (03) risk factors for the condition you men	(15 m
D	
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