

Date: 20.02.2023	Duration: 01.30 pm - 04.30 pm (3 Hours)
Answer All Ten Questions	
Index Number:	•••
Question Number: 01	
	ntening chest pain of 2 hours duration. On initia s 170/90 mmHg. An urgent ECG done on arriva
1.1 What is the diagnosis?	(10 marks)
1.2 List five risk factors you will assess in this	s patient for the condition mentioned in 1.1? (10 marks)
1.3 What immediate blood investigations you	will do in this patient? (10 marks)
1.4 Discuss the treatment of this patient for the	e first 24 hours. (50 marks)

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.5	On day three of admission, he developed acute shortness of breath with hypotension (BF
	80/60 mmHg). Give three likely causes for this deterioration.
	(10 marks)
.6	Echocardiogram on discharge reveals an Ejection Fraction (EF) of 35%.List the
	medications you will prescribe on discharge for this patient.
	(10 marks)



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Index Number:	•••••	
Question Number: 02		
Part A		
ingestion of 30 paracetamol (standa	with no comorbidities presents to A&E wird release) tablets (strength of a tablet-50 of alcohol. On examination, he is clinical	0mg) taken 30
2.1 Has he taken toxic dose of parace	etamol? Give reasons.	(10 marks)
2.2 Name the antidotes used in parac	etamol overdose?	(10 marks)
2.3 When do you check plasma parac	cetamol level for this patient if needed?	(5 marks)
2.4 Outline the initial management of	f this patient in first 24 hours	(25 marks)

2.5 Name two blood tests that will predict the poor outcome in this patient? (10 marks)
Part B
A 50-year-old female from Jaffna is admitted to medical ward after being bitten by an unidentified snake three hours earlier. On examination, she has bilateral ptosis and ophthalmoplegia but there are no signs of inflammation at the site of bite. Her blood pressure is 120/80 mmHg and pulse rate is 96 bpm, regular. Examination of the respiratory system is unremarkable. Her INR is 1.2.
2.6 What is the offending snake? (10 marks)

2.7 Outline the management of this patient during first 4 hours?	(20 marks)
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2.8 What life-threatening complication patient might develop?	(10 marks)



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Question Number: 03

A 70-year-old female (weight-60kg) who has been taking omeprazole for peptic ulcer disease presents with fever of 5 days duration associated with myalgia, arthralgia and retro orbital pain. Clinical examination reveals temperature of 37°C, blood pressure of 120/80mmHg with no postural drop and pulse rate of 86/minute. She also has tender hepatomegaly. Point of Care ultrasound scan confirms mild right-side pleural effusion with no ascites. Results of investigations are shown below.

Name of the	Day 01 of	Day 05 of
test	illness	illness
WBC	5000/mm ³	2200/mm ³
N	70%	36%
L	26%	62%
Hb	12g/dL	13g/dL
Hct	36	39
Platelets	196,000/mm ³	$32,000/\text{mm}^3$
NS 1 Ag	Positive	

3.1	What is the complete diagnosis?	(10 marks)
3.2	2 Outline the management of this patient for next 48 hours.	(30 marks)
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Patient's clinical condition started to deteriorate after 20 hours of hosp the recommended treatment. Her vitals are Blood pressure – 80/70 mmHg Pulse rate – 126/minute, Regular FBC (done at 20 hours after admission) shows WBC 13,000/mm ³ Hb – 12.1g/dL Hct – 36.3 Platelets – 12,000/mm ³	ital stay while receiving
3.3 What is the likely cause for her deterioration?	(10 marks)

3.4	4 Outline the management of the condition mentioned in 3.3	(40 marks)

3.5 List two other conditions that are known to cause high WBC in this patient	(10 marks)



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Index No	Number:	
Questi	tion Number: 04	
duratio examin	-year-old university undergraduate student presents with ion associated with polyarthralgia involving small joint ination, she is pale, febrile and has cervical lymphaden- cal examination is unremarkable.	s of hands and hair loss. On
Initial i	l investigations reveals:	
Hb	9g/dl(12-15), MCV 88 fl	
WBC	C 4200/mm ³ (4000-11000), N 75%, L15%	
Platelet	let 95,000/mm ³ (150,000-450,000)	
ESR	102mm in 1 st hour (<20)	
CRP	6.5mg/L (<8)	
UFR	Protein ++	
	RBC 20-30/ HPF	
	Pus cells 12-16/HPF	
	Cast-red cell cast +	
4.1 Wh	What is the most likely diagnosis?	(10 marks)
4.2 Lis	ist five diagnostically important blood investigations in	this patient? (15 marks)
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4.3	4.3 If her CRP has increased to 120mg/L while in the ward, what are the three cause			
	would look in this patient?	(10 marks)		
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4.4	Outline the management of this patient?	(45 marks)		
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15	Outline the health related implications to her and the fetus if she becomes	prognant
+. ∫	Outline the health related implications to her and the retus it she becomes	
		(20 marks)
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Date: 20.02.2023

UNIVERSITY OF JAFFNA, SRI LANKA FINAL EXAMINATION FOR MEDICAL DEGREES -FEBRUARY 2023 ACADEMIC YEAR 2015/2016 MEDICINE – PAPER II

Duration: 01.30 pm - 04.30 pm (3 Hours)

Answer All Ten Questions	
Index Number:	
Question Number: 05	
A 38-year-old female presents to the medical clinic with tiredness, lethars tolerance of one month duration on a background of sero-positive rhe regular medications. Her menstrual periods are irregular with menoral months duration. Her regular medications are Methotrexate 15mg once weekly, Folic acid Diclofenac Sodium 50 mg PRN and Omeprazole 20 mg PRN. On examination, she is pale and has joint deformities related to her examination reveals a firm splenomegaly of 5cm below the costal margin.	umatoid arthritis on hagia for the last 6
$ \begin{array}{ll} \mbox{Initial investigations reveals} \\ \mbox{Hb} & 8g/dL(12\text{-}15) \\ \mbox{WBC} & 4800 \ / \mbox{mm}^3 \ (4000\text{-}11000), \mbox{N-}70\%, \mbox{L} - 20\% \\ \mbox{Platelet} & 120,000 \ / \mbox{mm}^3 \ (150000\text{-}450000) \\ \mbox{ESR} & 95 \ \mbox{mm}/1^{\rm st} \ \mbox{hour} \ (<\!20) \\ \mbox{TSH} & 15 \ \mbox{mIU/L}(0.5\text{-}5.0) \\ \end{array} $	
5.1 Name four likely causes for bicytopenia in this patient?	(20 marks)
While in the ward she developed dark colour urine, worsening of let Subsequent investigations reveals Hb 4g/dL MCV 110 fl (80 – 95) Serum total bilirubin 5mg/dl (0.1-1.2) Direct bilirubin 1mg/dL	hargy and jaundice.
5.2 What is the most likely diagnosis for the acute deterioration?	(10 marks)

5.3 List the other supportive investigations you will perform for the condition	mentioned in
5.2 and give the expected findings.	(20 marks)
5.4 Name a blood test to confirm your diagnosis mentioned in 5.2	(10 marks)
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5.5 How will you manage the condition mentioned in 5.2?	(40 marks)
5.5 How will you manage the condition mentioned in 5.2?	
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Date: 20.02.2023	Duration: 01.30 pm - 04.30 pm	m (3 Hours)
Answer All Ten Questions		
Index Number:	••	
Question Number: 06		
A 60-year-old male with decompensated liver presents with recurrent episodes of hematemetric icteric and sweaty with pulse rate of 130 bpt Scale (GCS) on arrival is 15.	esis since morning. On examinatio	n, he is pale,
6.1 What is the most likely cause for the hema	temesis?	(10 marks)
6.2 How will you manage this patient during the	ne first 24 hours?	(40 marks)
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wa are	eter receiving the appropriate initial treatment at the A&E, he was transferred and. Next day morning on the ward round, you found him confused and drow the stable with heart rate of 90 bpm and Blood Pressure of 110/70mmHg, but the Scale (GCS) dropped to 12/15. Random blood glucose is 110mg/dL.	
wa are Co	ard. Next day morning on the ward round, you found him confused and drow e stable with heart rate of 90 bpm and Blood Pressure of 110/70mmHg, but	
wa are Co	ard. Next day morning on the ward round, you found him confused and drow e stable with heart rate of 90 bpm and Blood Pressure of 110/70mmHg, but oma Scale (GCS) dropped to12/15. Random blood glucose is 110mg/dL.	his Glasgow (10 marks)
wa are Co	ard. Next day morning on the ward round, you found him confused and drow e stable with heart rate of 90 bpm and Blood Pressure of 110/70mmHg, but oma Scale (GCS) dropped to12/15. Random blood glucose is 110mg/dL. 3 What is the most likely reason for his deterioration?	his Glasgow (10 marks)d in 6.3?
wa are Co	ard. Next day morning on the ward round, you found him confused and drow e stable with heart rate of 90 bpm and Blood Pressure of 110/70mmHg, but oma Scale (GCS) dropped to12/15. Random blood glucose is 110mg/dL. 3 What is the most likely reason for his deterioration?	his Glasgow (10 marks)d in 6.3?
wa are Co	ard. Next day morning on the ward round, you found him confused and drow e stable with heart rate of 90 bpm and Blood Pressure of 110/70mmHg, but oma Scale (GCS) dropped to12/15. Random blood glucose is 110mg/dL. 3 What is the most likely reason for his deterioration?	his Glasgow (10 marks)d in 6.3?
wa are Co 6.3	ard. Next day morning on the ward round, you found him confused and drow e stable with heart rate of 90 bpm and Blood Pressure of 110/70mmHg, but oma Scale (GCS) dropped to12/15. Random blood glucose is 110mg/dL. 3 What is the most likely reason for his deterioration?	his Glasgow (10 marks)d in 6.3?
wa are Co 6.3	ard. Next day morning on the ward round, you found him confused and drow e stable with heart rate of 90 bpm and Blood Pressure of 110/70mmHg, but oma Scale (GCS) dropped to12/15. Random blood glucose is 110mg/dL. 3 What is the most likely reason for his deterioration? 4 What three investigations you will arrange to support the condition mentioned.	his Glasgow (10 marks)d in 6.3? (15 marks)
wa are Co 6.3	ard. Next day morning on the ward round, you found him confused and drow e stable with heart rate of 90 bpm and Blood Pressure of 110/70mmHg, but oma Scale (GCS) dropped to12/15. Random blood glucose is 110mg/dL. 3 What is the most likely reason for his deterioration? 4 What three investigations you will arrange to support the condition mentioned.	his Glasgow (10 marks)d in 6.3? (15 marks)
wa are Co 6.3	ard. Next day morning on the ward round, you found him confused and drow e stable with heart rate of 90 bpm and Blood Pressure of 110/70mmHg, but oma Scale (GCS) dropped to12/15. Random blood glucose is 110mg/dL. 3 What is the most likely reason for his deterioration? 4 What three investigations you will arrange to support the condition mentioned.	his Glasgow (10 marks)d in 6.3? (15 marks)
wa are Co 6.3	ard. Next day morning on the ward round, you found him confused and drow e stable with heart rate of 90 bpm and Blood Pressure of 110/70mmHg, but oma Scale (GCS) dropped to12/15. Random blood glucose is 110mg/dL. 3 What is the most likely reason for his deterioration? 4 What three investigations you will arrange to support the condition mentioned.	his Glasgow (10 marks)d in 6.3? (15 marks)
wa are Co 6.3	ard. Next day morning on the ward round, you found him confused and drow e stable with heart rate of 90 bpm and Blood Pressure of 110/70mmHg, but oma Scale (GCS) dropped to12/15. Random blood glucose is 110mg/dL. 3 What is the most likely reason for his deterioration? 4 What three investigations you will arrange to support the condition mentioned.	his Glasgow (10 marks)d in 6.3? (15 marks)

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Date: 20.02.2023	Duration: 01.30 pm - 04	.30 pm (3 Hours)
Answer All Ten Questions		
Index Number:	•••••	
Question Number: 07		
exertional tiredness. She finds diffic conditioned class room. She has men	the medical clinic for further evaluation cult to do her teaching activities in the norrhagia for past 3 months. On example, and blood pressure is 140/100 mm.	he newly built air nination, she looks
7.1 What is the unifying diagnosis?		(10 marks)
7.2 List the other clinical signs you m	ay be able to elicit in this patient.	(20marks)

7.3 What investigations you would request for this patient in the	clinic and give the
abnormalities expected?	(20 marks)
7.4 List three possible causes of anemia in this patient?	(15 marks)
7.5 How will you manage this patient?	(35 marks)

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Duration: 01.30 pm - 04.30 pm (3 Hours)

Answer All Ten Questions			
Index Number:	••••		
Question Number: 08			
months duration. He also has noted intermit	er evaluation of generalized body swelling for 3 ttent leg swelling for last one year duration. He has ut denies any chest pain or palpitation. He has been nedications.		
1 0	ema up to knee with early clawing of the toes. His breath sounds and vocal resonance in the right base		
His investigations are			
Hb 12g/dL (12-15), WBC 11,000/mm ³ (4,000-11,000),Platelets 170,000(150,000-450,000)		
UFR Protein +++			
Pus cells 05-08/HPF			
RBC- Nil			
Serum Creatinine 1.6 mg/dl (0.7-1.1)			
Serum Sodium 124mmol/1 (135-145)	Serum Potassium 4.8 mmol/l (3.5-5.5)		
Total protein 62 g/L (60-83) Serum Albumin 28g/L(34-54)			
Urine Protein : Creatinine ratio : 460 mg/m	mol (Normal <15)		
Ultrasound scan KUB shows normal sized l	kidneys and normal bladder without any features of		
obstruction.			
Transthoracic echocardiography shows a pr	reserved ejection fraction of 60%.		
8.1 a) What is the diagnosis for the current	presentation? (10marks)		
b) What is the most likely aetiology?	(10 marks)		

8.2	2 What further physical signs would you expect in the focused examination?	(20 marks)
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8.3	Briefly discuss the measures that you would consider for this patient to reduce	ce the
	proteinuria and retard the progression of kidney disease?	(30 marks)
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8.4 List four clinical/laboratory findings that would suggest you to evaluate	te for an alternative
aetiology for this clinical presentation.	(10 marks)
8.5 a) What is the likely mechanism of hyponatraemia in this patient?	(10 marks)
b) How would you treat the hyponatraemia in this patient?	(10 marks)



Date: 20.02.2023	Duration: 01.30 pm - 04.30 pm (3 Hours)
Answer All Ten Questions	
Index Number:	••••••
Question Number: 09	
last 3 weeks duration. Her symptoreports shortness of breath on mod	DM for last 10 years presents with drooping of eyelids for ome are more in the evening. On further questioning shalerate exertion and tiredness. Examination reveals bilateral ination and system examinations are unremarkable.
9.1. What is the most likely diagnos	sis for this presentation? (5 marks)
9.2 List three other clinical manifes in 9.1?	stations she can develop related to the diagnosis mentioned (10 marks)
	be performed to support your diagnosis mentioned in 9.1? (10 marks)
9.4. List four diagnostically import	ant investigations for the condition mentioned in 9.1? (20 marks)

9.5 Discuss the treatment for the diagnosis mentioned in 9.1	(40 marks)

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9.6. After 3 months, patient gets admitted with unconsciousness. List	five most likely causes
for unconsciousness in this patient?	(15 marks)
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Duration: 01.30 pm - 04.30 pm (3 Hours)

Answer All Ten Questions
Index Number:
Question Number: 10
A 30-year-old male presents with day time somnolence and worsening of difficulty in breathing of 2 weeks duration. He is a non-smoker. On examination, he is obese with BMI o 38kg/m², drowsy with Glasgow Coma Scale (GCS) of 15/15, plethoric and has bilatera oedema up to mid-calf region. His vitals include a pulse rate of 110bpm and a blood pressure of 150/90 mmHg. Respiratory examination reveals no abnormalities. S _P O ₂ at the time of admission is 87% on room air.
His Arterial Blood Gas (ABG) findings are
pH 7.35(7.35-7.45)
PCO2 78mmHg(35-45) PaO2 53mmHg(75-100)
HCO3 39mmol/L(22-28)
Base excess +7 mmol/l(-2 to +2)
10.1. What is the interpretation of the ABG findings? (10 marks)
10.2 What is the likely disease that has caused the above ABG abnormality? (10 marks)
10.3. List five salient points in the history that you would gather to support the diagnosis mentioned in 10.2? (15 marks)

10.4. Name the test to be performed to confirm the diagnosis mentioned in 10.2?	(10 marks)
10.5. List the other relevant investigations you would carry out in this patient?	(20 marks)
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10.6 Outline the management of this patient?	(35 marks)
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