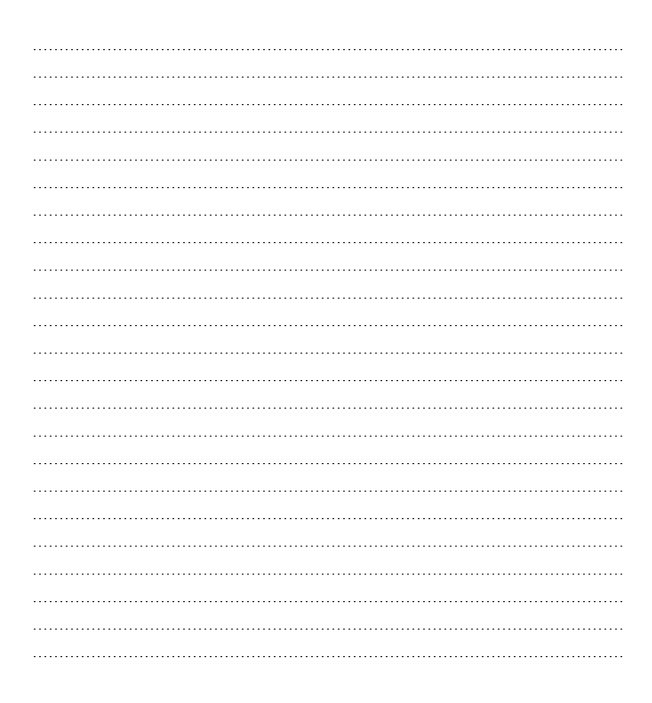


Date: 17.03.2025	Time: 1.30 pm to 4.30 pm (03 hours)
<b>Answer All Ten Questions</b>	
Index Number:	
QUESTION 01	
small joints of hands and feet symmetric similar illness since 30 years of age and	edical clinic with a history of pain and swelling involving ically over the past two months. She had been treated for d defaulted the follow up for the last two years. She also e in the morning and the joints are stiff for an hour in the
1.1 What is the most probable clinical d	liagnosis for the above clinical presentation? (10 marks)
1.2 What are the physical signs you wo	uld look for on examination of hands to support your
clinical diagnosis?	(15 marks)

1.3 Examination of the lower limb revealed a painful swelling over t	he posterior aspect of the
knee. What could be the possible complication?	(05 marks)
1 4 Name Eve(5) outre articular manifestations of the condition you	mantioned in 1.1 (10 mortes)
1.4 Name <b>five(5)</b> extra articular manifestations of the condition you	mentioned in 1.1 (10 marks)
1.5 On systemic examination she was found to be having cervical lyn	mphadenopathy and
splenomegaly. Name the possible complication she has developed	ed. (10 marks)
1.6 List the blood investigations you would perform to assess her dis	aggs status and manitar tha
1.6 List the blood investigations you would perform to assess her distreatment. Give reasons.	(20 marks)
	,
1.7 Outline the pharmacotherapy you would institute on this patient.	Mention the important side
effects of these medications.	(30 marks)





Date: 17.03.202	25	Time: 1.30 pm to 4.30	pm (03 hours)
Answer All Ten Questions			
Index Number:			
QUESTION	02		
A 50-year-old	male with end stage renal disease or	n hemodialysis has following	FBC report.
Hb	7.2g/dL(12.5-15.5),MCV 84fL(	(80-96)	
WBC	7600/mm³(4000-11000),N-68%	6,L-25%	
Platelet	156000/mm <sup>3</sup> (150000-400000)		
2.1 Explain th	e pathophysiological mechanism of t	the anaemia in this patient	(15 marks)
2.2 How do yo	ou assess the iron status of this patier	nt?	(15 marks)

2.:	3 If iron deficiency is identified, how will you treat it?	(20 marks)
2.	4 Discuss the management of anaemia in this patient.	(30 marks)
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2.5 What complications you may expect with the above management? (20 marks)	s)
2.5 What complications you may expect with the above management? (20 marks)	s) 
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Date: 17.03.2025	Time: 1.30 pm to 4.30 pm (03 hours)
Answer All Ten Questions	
Index Number:	
QUESTION 03	
A 45-year-old man presents with fever with chills an zone pleuritic chest pain over 2 days.	nd rigor, productive cough and left lower
3.1 What is the most possible diagnosis?	(5 marks)
3.2 What are the three physical examination findings you will expect in this patient?	on auscultation of the respiratory system (10 marks)
3.3 Discuss the investigations you need to perform in	

3.4	4 This patient's respiratory rate is 30/minute, Blood pressure 80/55mmHg and Sproom air.Mention the empirical antibiotic treatment you will start.(Including diffrequency and dose)	
3.4	room air.Mention the empirical antibiotic treatment you will start.(Including da	rug name,
	room air.Mention the empirical antibiotic treatment you will start.(Including day frequency and dose)  5 Patient failed to respond to above mentioned treatment by day 4. List the possi	rug name, (15 marks)ble reasons
	room air.Mention the empirical antibiotic treatment you will start.(Including diffrequency and dose)	tug name, (15 marks)  ble reasons (20 marks)
	room air.Mention the empirical antibiotic treatment you will start.(Including draftequency and dose)  5 Patient failed to respond to above mentioned treatment by day 4. List the possifor the inadequate response?	tug name, (15 marks)  ble reasons (20 marks)
	room air.Mention the empirical antibiotic treatment you will start.(Including draftequency and dose)  5 Patient failed to respond to above mentioned treatment by day 4. List the possifor the inadequate response?	tug name, (15 marks)  ble reasons (20 marks)
	room air.Mention the empirical antibiotic treatment you will start.(Including draftequency and dose)  5 Patient failed to respond to above mentioned treatment by day 4. List the possifor the inadequate response?	tug name, (15 marks)  ble reasons (20 marks)
	room air.Mention the empirical antibiotic treatment you will start.(Including draftequency and dose)  5 Patient failed to respond to above mentioned treatment by day 4. List the possifor the inadequate response?	tug name, (15 marks)  ble reasons (20 marks)

3.6 The patient was appropriately managed and shown significant improve	ement in clinical and
laboratory parameters. On the 10th day of the illness while awaiting for	discharge she
developed acute shortness of breath and SpO2 dropped suddenly to 68°	%. What is the most
likely cause for the sudden deterioration?	(10 marks)



Date: 1	7.03.2025	Time: 1.30 pm to 4.30	pm (03 hours)
Answe	r All Ten Questions		
Index I	Number:		
QUE	STION 04		
onset 90 bp stiffn	-year-old diagnosed patient with hypertension severe headache and weak left upper and lower om, blood pressure 220/140mmHg, heart sounds tess. Power of left upper and lower limbs is gral and reactive. Swallowing is affected. Other systems	r limbs. On examination he dual rhythm,GCS -15/15 arade 2 with extensor plantar	is not pale, pulse ad there is no neck r response, pupils
4.1.	What is the most likely diagnosis? arks)		(10
4.2 Li 	st <b>three(3)</b> common causes for the diagnosis me		
4.3 W	hat is the first diagnostically important investiga	ation you need to perform i	n this patient? (5 marks)
4.4 W	hat are the other investigations you need to perfo		(20 marks)

4.5 Brief out the management of this patient for the diagnosis mentioned in 4.1	? (40 marks)
	••••••

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4.6 On the 4 <sup>th</sup> day of his illness his of GCS in this patient?	GCS dropped to 12/15.L	ist <b>five(5)</b> possible causes	for the drop (15 marks)
	GCS dropped to 12/15.L	ist <b>five(5)</b> possible causes	
	GCS dropped to 12/15.L	ist <b>five(5)</b> possible causes	
	GCS dropped to 12/15.L	ist <b>five(5)</b> possible causes	
	GCS dropped to 12/15.L	ist <b>five(5)</b> possible causes	
	GCS dropped to 12/15.L	ist <b>five(5)</b> possible causes	



Date: 17.03.2025	Time: 1.30 pm to 4.30 pm (03 hours)
Answer All Ten Questions	
Index Number:	•
QUESTION 05	
A 68-year-old man presents with shortness of breath with hypertension, type 2 diabetes and IHD an examination, he is tachypnoec with RR 25/minute, S regular, BP 220/110mmHg and auscultation over midzone.	d defaulted the medical follow-up. On 5pO2 87% on room air, pulse rate 110bpm,
5.1. What is the diagnosis of this presentation?	(10 marks)
5.2. Give <b>five(5)</b> essential investigations you will a findings.	(20 marks)
5.3. How will you manage this patient in the A&E?	(35 marks)

This patient was managed accordingly and on day 2 of admission,he found to have the following tracing in the cardiac monitor which laste 5.4. What is the ECG diagnosis?	



Date: 17.03.2025	Time: 1.30 pm to 4.30 pm (03 hours)
<b>Answer All Ten Questions</b>	
Index Number:	•••••
QUESTION 06	
found difficult to complete her household act	ht gain of 5 kg body weight and letharginess. She ivities lately. She is following a gynaecology clinic s well. On examination she is not pale, BP are in the anterior neck.
6.1. What is the most likely diagnosis?	(10 marks)
6.2. Mention <b>five(5)</b> clinical signs you expec	t to see in this patient? (15 marks)
6.3. How will you confirm your clinical diag	nosis?Mention the expected abnormalities? (15 marks)

6.4. How will you manage this patient?	(25 marks)
This lady underwent a surgical removal of the neck lump due to post op review she complains numbness around the mouth and ti at times.  6.5. What is the likely cause for her new symptoms?	ngling sensation on her hands (10 marks)
6.6. How will you comfirm your diagnosis?	(10 marks)
6.7. How will you treat the condition?	(15 marks)



		Time: 1.30 pm to 4.30 pm (03 hours)
stions		
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on for a duration	n of three days.On e	n fever, abdominal pain, and worsening examination, his GCS is 15, febrile, pale, ankle edema, generalized abdominal
10g/dl(12.5-1 120 000/mm³ 110 45 110 80 2.8g/l 3.0g/l 3.8 mg/dl 2.9 mg/dl 2mg/dl 130mmol/l 4.9mmol/l port Protein White cells	2.9 g/dl 700/µl	0-96)
Lymphocytes Red cells	250/μl 50/μl	(10 marks)
	with liver cirron for a duration totable findings ascites.  4500/mm³(4010g/dl(12.5-1120 000/mm³110 45 110 80 2.8g/l 3.0g/l 3.8 mg/dl 2.9 mg/dl 2mg/dl 130mmol/l 4.9mmol/l port  Protein White cells Neutrophils Lymphocytes Red cells	e with liver cirrhosis presents with on for a duration of three days. On electable findings includes bilateral sascites.  4500/mm³(4000-11000) 10g/dl(12.5-15.5), MCV 90fL(80120 000/mm³(150000-400000) 110 45 110 80 2.8g/l 3.0g/l 3.8 mg/dl 2.9 mg/dl 2mg/dl 130mmol/l 4.9mmol/l boort Protein 2.9 g/dl White cells 700/µl Neutrophils 450/µl Lymphocytes 250/µl

7.2 How would you manage the above condition?	(40 marks)
	•••••
	•••••
	•••••
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	••••••

7.3 How do you prevent further episodes of the condition mentioned in 7.1	(10 marks)
7.4 On day three of his hospital stay, he became confused. What are the possible	causes? (15 marks)
7.5 What further investigations would you perform to determine the likely confusion? Write the expected findings	cause of his (25 marks)



Date: 17.03.2025	Time: 1.30 pm to 4.30 pm (03 hours)
<b>Answer All Ten Questions</b>	
Index Number:	•••••
QUESTION 08	
A 50-year-old woman with Diabetes mellitus with chills and rigor, dysuria, increased freque dizziness and episodes of confusion of one direcorded.  Temperature – 40°C  Blood pressure – 70/45 mmHg  PR – 128 bpm  RR – 28/min  GCS – 14/15  Lungs-Clear  Abdomen – Normal except right renal angle ter	ency of urination and vomiting of 7 days, and ay. On examination, following findings were
Sepsis	(10 marks)
Septic shock	(10 marks)

8.2 List two investigations you will request to identity the causative agents.	(10 marks)
3.3 She is found to have metabolic acidosis with lactic acidosis. Write two cau actate level in this patient.	uses for high (10 Marks)
3.4 How would you manage the hypotension in this patient?	(30 marks)
Frine culture reveals ESBL producing "E coli"	
.5 Write two commonly used different classes of antibiotics with an example ould be used to treat this patient	e for each that (10 Marks)

8.6 Pa	tient random blood glucose is 420 mg/dL	
a.	Write the name and route of administration of medication you will us blood glucose	se to control the ( 5 Marks)
b.	What is the target blood glucose level	( 5 Marks)
	st three complications she may develop due to her acute illness	(10 marks)



Date: 17.03.2025	Time: 1.30 pm to 4.30 pm (03 hours)
<b>Answer All Ten Questions</b>	
Index Number:	••••••
QUESTION 09	
Part A	
	s to A&E, 30 minutes after ingestion of a few "Alary complains of dizziness and vomiting. On examination, she her BP is 90/60 mmHg.
9.1 Mention the active agent whic	h causes the clinical syndrome and briefly explain the
mechanism of action.	(10 marks)
9.2 List two essential investigations	you would carry out in this patient with expected findings.
	(10marks)

9.3 What will be your immed	iate steps of manager	ment in this patient?	( 20 marks)
Part B			
A 40-year-old manual worker consciousness.	r was brought to A&I	E with a history of reduce	ed level of
Initial investigations showed	the following results		
Serum chloride	12 mmol/L 100 mmol/L	(4-5.6) (135-145) (3.5-5.0) (2.5-7) (22-28) (97-107)	
Non-contrast CT brain - Norr	nal		
9.4 Calculate the serum osmo	olality		(10 marks)
9.5 Calculate anion gap			(10 marks)

# if Measured serum osmolality is 356 mOsmol/kg 9.6 Write two differential diagnoses (10 marks) Results of his blood gas analysis are shown below pH - 7.32 $pO_2 - 192 \text{ mmHg}$ pCO<sub>2</sub> -24 mmHg $HCO_3 - 12 \text{ mmol/L}$ lactate - 1.5 mmol/L 9.7 What is the interpretation of ABG? (10 marks) ..... Later it was noted that he had afferent pupillary defect 9.8 What is the most likely diagnosis? (10 marks) 9.9 List two antidotes for above condition mentioned in 9.8 (10 marks)



Date: 17.03.2025		Time: 1.30 pm to 4.30 pm (03 hours)
Answer All Ten Q	Questions	
Index Number:		
QUESTION 10		
function while there aren't any kidney failure ar	being evaluated for a new onset hypsignificant finding on examination. I	For further evaluation of impaired kidney pertension. Patients is asymptomatic and He informs about his mother who had had of 65. His blood pressure on examination HCT 25 mg mane on regular basis.
His investigation	ns are as follows,	
UFR	++ of protein RBC: Nil /HPF Pus cells 5-8/HPF	
Hb	14g/dL(12.5-15.5) – MCV 83 fl	
WBC	$11.7 \times 10^9 / L(4-11 \times 10^9)$	
Platelets	260 x 10 <sup>9</sup> /L(150-400 x 10 <sup>9</sup> )	
CRP	6  mg/dL (<6 mg/L)	
ESR	35 mm/hour	
Uric acid	7.8 mg/dL (3.5-7.2 mg/dL)	
Serum creatinine	1.8mg/dl ( 0.7-1.1 mg/dL)	
Serum Sodium	138 mmol/l	
Serum Potassium	4.6 mmol/l	
FBS	5.2 mmol/l	
	nine ratio – 1.4 mg/mg (less than 0.15 mg/m nlarged kidney of 14cm each and there are 4	large cysts in left kidney and 5 cysts in the right.
There is a	single cystic lesion in the left lobe of the liv	er as well
10.1 What is the	likely diagnosis?	(10 marks)

10.2 What measures could be taken to slow the progression of kidney failure?	(40 marks)
	•••••
	•••••

10.3 His mother had died due to sudden onset intracranial bleed, what complication could have developed?	(10 marks)
10.4 How could you prevent the above mentioned complication in this patient?	
10.5 What other 5 complications this patient could develop?	(25 marks)