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	1.4 Explain what happens to the blood pH and urine pH if the H+ secretion at the proximal	
	1.4 Explain what happens to the blood pH and urine pH if the H+ secretion at the proximal tubule of the kidney is blocked. (30 marks)	
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2.	19 FEB 2020
2.1 Name two diseases related to calcium homeostasis.	(05marks) (35 01.60 80
2.2 Write two laboratory investigations that are useful in the	diagnosis of the above mentioned
diseases.	(05 marks)
2.3 Write short notes on the following.	
2.3.1 Role of vitamin D in calcium homeostasis.	(10 marks)
2.3.2 Functions of aldosterone.	(10 marks)

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2.3.3 Signal transmission at a chemical synapse	(20 marks)
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2.4 A 55 year-old female patient complains of having polyuria, polydipsia and polyphagia.

2.4.1 State the most likely diagnosis of this patient. (5 marks)

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	19 FEB 2020
2.4.2 Measurement of HbA1C was among the investigations requested by the	doctor. Explain why
the doctor may have requested to measure HbA1C.	Compartizo Tas Sa
	(61)
2.4.3 List 02 other laboratory investigations that may help in the diagnosis.	(10 marks)
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2.4.4 List two non-pharmacological interventions that would help in the mar	nagement. (10 marks)
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