Name:	Stream: S.1
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CHEMISTRY
(THEORY)

NOVEMBER 2023
1 hour 45 minutes



## KITANTE HILL SCHOOL S.1 COMPETENCE BASED ASSESSMENT END OF TERM III EXAMINATIONS 2023 CHEMISTRY (THEORY) 1 hour 45 minutes

## **INSTRUCTIONS:**

- This paper consists of **ten** questions.
- Answer all questions in the spaces provided.
- Illustrations in form of drawings should be made where necessary, with a sharp **pencil.**

	scientific fields of study.	
9	Show how the knowledge of chemistry is applied in the;	
i)	Biological field.	(3 scores)
ii)	Physics field.	( 3 scores)
2.	Engineers need to know that substances expand when they are heated.	
	areas where engineers use this knowledge when designing things.	( 3 scores)
		•••••

1. You have studied that chemistry is a central science because it is linked to many other

3.	Many people are wondering why smoke is produced by some lighting/he	ating
	equipments e.g candles, kerosene lamps or even when burning fuels such	n as rubbish,
	paraffin, plastics etc whereas some heating/lighting equipments such as	stoves, gas
	cookers don't produce the smoke. To add on they wonder why some mote	orcycle
	engines produce smoke whereas some do not.	
	a) Using the knowledge of chemistry, describe what smoke is and explain	the possible
	cause of smoke production.	(3 scores)
••••		
••••		•••••
	b) How is it possible for smoke particles to move in space?	(1 score)
••••		
4	Your mother heard on the radio during a certain programme that milk pov	wder can he
	prepared from fresh Milk using the evaporation to dryness method. She a	
	suggest how the Milk powder can be prepared. What would you tell her. F	•
		(6 scores)
	writing.	(0 300/03)
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••••		
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••••		
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5. a) Match the	e following polymer materials to the m	onomers they contain. (6 scores,
POLYMER MA	<u>ATERIAL</u>	<u>MONOMER</u>
Paper		
		Ethene
Wool		
		Isoprene (2-methyl -1.3-butadiene)
Wood		-1.3-butadiene)
		Beta glucose
Starch		
		Amino acids
Polyethene		
		Alpha glucose
Rubber		

b) State the use of the following fibres	
i) Nylon.	(2 scores)
ii) Cellulose.	(2 scores)
6. During a classroom lesson, the motion was "wooden chairs are better chairs". What points would you write to;	than plastic
i) <b>propose</b> the motion.	(03 scores
ii) <b>oppose</b> the motion.	(03 scores)

7.	You noticed that a <b>wet</b> cloth you hanged inside a house during the night w	as <b>dry</b> by the
	time you checked on it in the morning after waking up. Explain how this wa	as possible?
		(3 scores)
		(
•••••		•••••
•••••		
8	If you have an old aluminium saucepan at home, explain how you would u	se it to
Ο.		
	manufacture a spoon.	( 4 scores)
••••		•••••
••••		
••••		
••••		
9.	During water transmission under the soil surface, plastic pipes are normal	lyusad
Э.		•
	instead of <b>metallic pipes</b> . What explanation can you write about this?	(4 scores)
		•••••••••••

10. I	n your village, people dispose a lot of plastic waste. However, the only so	lution they	
ł	have to reduce their amount is collecting and burning them.		
a)	As a concerned student, what can you write to the chairman informing	g him about	
	the dangers that can result from burning plastics?	(5 scores)	
••••••			
••••••		•••••	
••••••		••••••••••	
b)	) If the chairman calls you to address a group of people about other way	s they can	
	manage plastics instead of burning them, what would you tell them. S	ummarize your	
	speech in writing.	(3 scores)	

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Wish you nice holiday