Name:		
Class:	Sign	
CHEMISTRY		
CHEMISIRI		
DAPER		

ASSHU - KASESE ACADEMIC BOARD

End of year promotional examination 2022

S.1CHEMISTRY

PAPER

2 hours

NSTRUCTIONS:

2 hours

- This paper consists of two sections A and B
- Attempt All questions in Section A and 3 Questions in Section B
- Any additional questions answered will not be marked.

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1.	knife, it was found that the knife tur) What is the chemical name of the da	ouse for about a week. On observing the rned dark brown on the surface. ark brown substance?	ie
 (b) What conditions lead to the formation	on of the brown coating?	
	Which type of change does the knife		
(c)	coating.	enting the formation of the dark brow	n
 2.	Name the elements represents the fo		•
	Symbol	Element	
	Н		
	С		
	К		
	Ar		

 The following are changes that occur in everyday life. Classify them as either physical or chemical changes.

Cu

Change	Type of change
Rusting of iron sheet	
Burning of wood	
Melting of candle wax	
Rotting of fruits	
Dissolving salt in water	

4. Elements and compounds are examples of pure substances. Name the elements that are in the following compounds.

Name of Compound	Element in it
Water	
Carbon dioxide	
Sodium Chloride	
Iron Sulphide	
Zinc Fluoride	

	stinguish between the three states of matter, solids, liquids and gases in ms of
(i)	Arrangement of particles
(ii)	Motion of particles
	•••••
	SECTION B (Attempt any three question)

6. In a given school, the students complained that their mid break lessons are temporally affected by the aroma of the food being prepared for their teachers. According to them, the aroma is always intense during hot days compared to cold days.

The students keep wondering why the aroma from the kitchen can almost circulate around the whole school.

You have been identified as a chemistry student to explain this scenario on the school assembly, work a down a speech that you would present to explain the situation.

- 7. Through Human activities and settlements, the quality of drinking water in most areas of our country may gradually detoriate. This is as a result of many wastes generated properly sewage can be a danger to a clean and healthy environment.

 Your village council wants to protect the health of XB people and also conserve water by effectively treating sewage.

 As a chemistry student, the chairman LCI has sent you an irritation to go the council and present a report about the stapes of sewerage treatment.

 Write the report. You would present
- 8. Your grandmother keeps both her cooking oil and drinking water in her bed room. In a bid to prepare her food, she mistakenly pours the cooking oil into the water and she immediately realizes. She then calls you to help her isolate flown a laboratory report of an experiment you would carryout to isolate the two liquids.
- 9. At Mr. Mukasa's supper market, the following statement is clearly written in bold letters on the entrance.
 - "When shopping at this place, customers, come with your own renewable shopping and produce bags instead of single use bags, invest in water bottles".
 - Write down a report clearly explaining the above statements to the public.
- In your village, people are currently building good house with nice compounds.

However, if not constructed properly with the materials of good quality, such horse can breakdown causing financial loss and sometimes loss of life.

Using your knowledge of materials, write an essay identifying the materials you would advise people constructing houses to use. Justify the choice of each material you chose.

END.

QN		
1	(3) hydrated iron (iii) oxide 01 mk	Short response question
ij.	(b) water and oxygen 01 mk 01 mk	All answer mus be shorr and
	(c) chemical change 01 mk	precise
	(d) - oiling 01	. 1
	- galvanizing 01	
	-tin pleting 01 .	
	-greasing 01 0 o	Any4
U	- Enamecing o	Max. 08 mks
2	Hydrogen	Take spelling serious
	Carbon	No mark should be awarded if
	Potassium	spelling is wrong
	Argon	@1 mk = 05 mks
	Copper	
3,	Chemical change	As n two above
	Chemical change	Max. 05 mks
	Physical change	•
	Chemical change	
	Physical change	A six business and a six a
4	Hydrogen, oxygen 01 01	As in two above
0	Carbon, Caygen 01-01	Max. 10 mks
	Sodium, chlorine 01 01	
	Iron, Sulphur 01 01 o	
	Zinc, fluorine 0101	02
5.	(i) in solids particles are compacted together	03 mks
	- in liquids particles are not compacted	Award marks if explanation implies
	together like in solids - in gases, particles are far apart.	mibiles . Total and an advantage,
	- Iti gases, particles are far apart.	* * * * * * * * * * * * * * * * * * * *
	(ii) – in solids particles vibrate about their	* ***
	niean position 01 mk	
	-in liquids particles flow 01 mk	
	in gases particles move at random in all	
	directions and they move faster. 01 mk, 01	Max. 07 marks
	nik	THOM OF HIGHS
	1.10	Section A: max. 35 mks
ő	Points: basis of evaluation	Conclusion each 1 mk
Outout	9	
A well	•	Clear definition 2 mks
writter		
speech		01 media
	its rate is higher in gases and increases with	02 effect of temperature
1	increase in temperature	street of temperature
	the movement of air particles is responsible	02 reason for spread of aroma
	for spreading of the aroma	reason for spiced of arollia

,		-the particles of gases move randomly in all directions and this explains why the aroma spreads around the whole school.	03 reason why aroma spreads around the school Max. 15 marks
	7	Expected answer	Waki 25 Marks
	A well	Basis of evaluation	
	written	Definition of sewerage: sewerage is a mixture	Definition 01 mk
		of waste materials from home mixed with	Definition of the
	report		
		water, 01	Definition 01 mark
<u>s</u>	1	States of sewerage treatment	Definition of mark
		-screening : removing large objects that may	- '
		block or damage equipment and grit is	Stage 01 mk
		removed 02 mks	Stage 01 mk
		-orimary treatment: separation of organic	What it agtails 01 mls
		matter from waster water. This is done in	What it entails 01 mk
		settling tanks fr solids to sink to the bottom	*,
		(sludgs). Its removed for further treatment.	
	1	03 mks	Stage 01 mk
		-secondary treatment: water is put in large	What it entails 02 mks
		rectangular tank is blown into the water to	
		encourage bacteria to break down the tiny	
		bits of sludge that might have escaped. 03	Stage 01 mk
		mks	What it entails 02 mk
	3	-final treatment: waste water is passed	
	7	through a settlement tank where more	Stage 01 mk
		Sludge is removed and water at this stage is	What it entail 02 mk
		almost free from harmful impurities	
		0	
		Flow chart:	,
	,	Treatment center screening stage to primary	
	v/	treatment to secondary treatment to finals	Flow chart 02 mk
		stage to filtered into the river	Draw in the right order with
		3	arrows 01 mk (mark of
			excellence)
	R	Expected response	
	Cutput	cooking oil and water when mixed together	
J	A well	form two layers, they do not mix together	Knowledge of immisable 03 mks
	written	looking oil floats on water. Cooking oil is less	initial design of ministration of ministration
		Tense than water	
	report		Knowledge of diff is descite 02
		mixture is separated using a separating	Knowledge of diff in density 03
		funcel where its poured when tap is closed	mks
		and when opened water flows into a	Knowledge of instrument o
		container leaving the cooking oil in the funnel	separation and simple
		which is also removed	procedure 05 mks
			Well drawn diagram and layer
		•	clearly labeled 03 mks
			1 mk for referring to less dense

			(1 mk of excellence)
		The state of the s	
	15	(14-14-14-14-14-14-14-14-14-14-14-14-14-1	
2	3		
		Basis f evaluation	
	Output A well written	-knowledge of renewable and non-renewable materials -biodegradable and non biodegradable	2 mks
	report	materials -effect of pollution by use of biodegradable materials	2 mks 2 mks
	3	-mention any item that reduce pollution of cotton cloth, paper, wood, woolen cloth -proper disposal of used materials	02 mks
à	6	-mention reasons why mukasa avoids non- biodegradable materials may be blown by wind to places like low lands and cause soil	Any 4 (04 mrks) Max. 04 mks
	3	infertility -they-to not decompose easily and pile around this supper market to make it dirty -pollute water	Makof excellence is for a learner who relates to recycling of non-biodegradable. (01 mk)
	-	-Death of animals when eaten -the block drainage systems and drinking water pipes	Max. 15mks
	.10	-may lead to death of marine animals	Each material a mark
	Out put	Expected answer Basis of evaluation 1) identification of materials 2) justification of each of the materials	Max. 09 mks Reason given for each material 05
		3) excellence: a house plan.	01 mk Max. 15 marks