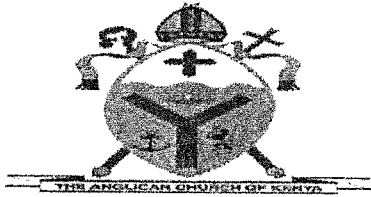


NAME.....INDEXNO.....ADM NO.....

SCHOOL.....SIGN.....DATE.....



**ACK MASENO WEST JOINT EXAMINATION  
KENYA CERTIFICATE OF SECONDARY EDUCATION**

**313/2**

**C.R.E**

**PAPER 2**

**MARCH, 2025**

**DURATION; 2 HOURS 30 MINUTES**

**Instructions to candidates**

- a) Write your name, school, stream, Adm no. and sign in the spaces provided
- b) This paper consists of six questions
- c) Answer **any five** questions.
- d) All answers **must be** written in the Answer Booklet provided.
- e) Each question carries 20 marks.

**For Examiners Use Only**

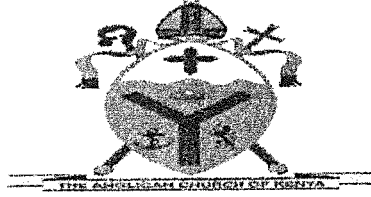
Question	1	2	3	4	5	6	Candidate's Total Score
Candidate's Score							

*This paper consists of 2 printed pages. Candidates should check the question paper to ensure that all the pages are printed as indicated and no questions are missing.*

- 1 a) Outline Micah's prophecies about the messiah (6mks)
- b) State eight events that took place when the boy Jesus was in the temple (8mks)
- c) Give six virtues demonstrated by Jesus in the temple (6mks)
- 2 a) Describe the incident in which Jesus cast out unclean spirit from a man in Gerasene. (6mks)
- b) Give reasons why Jesus was baptized. (8mks)
- c) What do Christians learn about Jesus from his Temptation in the wilderness. (6mks)
- 3 a) Why did Peter deny Jesus? (6mks)
- b) Describe events that took place on Mount Olives during the arrest of Jesus. (8mks)
- c) Give six reasons why some Kenyans are attracted to the church (6mks)
- 4 a) Identify the fruits of the Holy Spirit as taught by Saint Paul in Galatians 5:22-23 (8mks)
- b) Explain the teaching of Peter concerning the people of God (6mks)
- c) Identify six ways in which Christians prevent division in the church (6mks)
- 5 a) Identify seven causes of incest as a form of irresponsible sexual behaviour (7mks)
- b) State similarities between traditional African and Christian view on work (7mks)
- c) State Six causes of single parenthood in Kenya (6mks)
- 6 a) Give FOUR reasons why Christians are opposed Euthanasia (8mks)
- b) What are the positive effects of the use of mobile phones to families in Kenya (6mks)
- c) Outline SIX roles of the youth in the church in carrying out environmental restoration in Kenya (6mks)

NAME.....INDEXNO.....ADM NO.....

SCHOOL.....SIGN.....DATE.....



**ACK MASENO WEST JOINT EXAMINATION  
KENYA CERTIFICATE OF SECONDARY EDUCATION**

**313/1**

**C.R.E**

**PAPER 1**

**MARCH, 2025**

**DURATION; 2 HOURS 30 MINUTES**

**Instructions to candidates**

- Write your name, school, stream, Adm no. and sign in the spaces provided
- This paper consists of six questions
- Answer **any five** questions.
- All answers **must be** written in the Answer Booklet provided.
- Each question carries 20 marks.

**For Examiners Use Only**

Question	1	2	3	4	5	6	Candidate's Total Score
Candidate's Score							

*This paper consists of 2 printed pages. Candidates should check the question paper to ensure that all the pages are printed as indicated and no questions are missing.*

**Answer five questions only**

- 1 (a) How does the learning of CRE promote the goal of national development. (7 marks)  
(b) Outline similarities between Traditional African view of evil and the biblical concept of sin. (6 marks)  
(c) Identify **seven** ways in which the Traditional African communities take care of God's creation. (7 marks)
- 2 (a) State **seven** types of sacrifices and offerings given by the Israelites in the wilderness. (7 marks)  
(b) Outline **seven** actions performed by Moses during the Sinai covenant making. (7 marks)  
(c) Identify **six** virtues learnt from the breaking of the Sinai covenant. (6 marks)
3. (a) Describe the story of Naboth's vine yard. (1 Kings 21:1-16) (8 marks)  
(b) Identify **five** types of corruption Ahab and Jezebel committed in the story of Naboth's vine yard. (5 marks)  
(c) State **seven** lessons Christians learn from the ministry of Prophet Elijah. (7 marks)
4. (a) Identify **six** characteristics of false prophets in the Old testament. (6marks)  
(b) Highlight **six** teachings of prophet Amos on the day of the Lord. (6 marks)  
(c) How can Christians in Kenya avoid God's punishment. (8 marks)
5. (a) Describe the political background to Nehemiah. (6 marks)  
(b) Outline the importance of the wall of Jerusalem. (7 marks)  
(c) State **seven** ways in which Nehemiah portrays the quality of patriotism. (7 marks)
6. (a) State **seven** requirements one had to fulfil to be made an elder in the Traditional Africa Communities. (7 marks)  
(b) Identify **seven** moral values people acquire during initiation ceremonies in the traditional African communities (7 marks)  
(c) Explain the socio-cultural changes in the Traditional African Communities. (6 marks)

**END**

NAME.....INDEXNO.....ADM NO.....

SCHOOL.....SIGN.....DATE.....



**ACK MASENO WEST JOINT EXAMINATION  
KENYA CERTIFICATE OF SECONDARY EDUCATION**

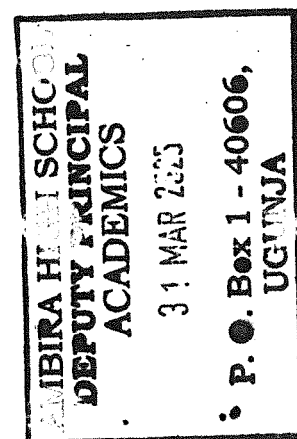
**313/2**

**C.R.E**

**PAPER 2**

**MARCH, 2025**

**DURATION; 2 HOURS 30 MINUTES**



**Instructions to candidates**

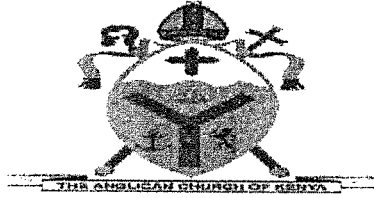
- a) Write your name, school, stream, Adm no. and sign in the spaces provided
- b) This paper consists of six questions
- c) Answer **any five** questions.
- d) All answers **must be** written in the Answer Booklet provided.
- e) Each question carries 20 marks.

**For Examiners Use Only**

Question	1	2	3	4	5	6	Candidate's Total Score
Candidate's Score							

*This paper consists of 2 printed pages. Candidates should check the question paper to Ensure that all the pages are printed as indicated and no questions are missing.*

- 1 a) Outline Micah's prophecies about the messiah (6mks)
- b) State eight events that took place when the boy Jesus was in the temple (8mks)
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- b) Give reasons why Jesus was baptized. (8mks)
- c) What do Christians learn about Jesus from his Temptation in the wilderness. (6mks)
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- b) Describe events that took place on Mount Olives during the arrest of Jesus. (8mks)
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- b) Explain the teaching of Peter concerning the people of God (6mks)
- c) Identify six ways in which Christians prevent division in the church (6mks)
- 5 a) Identify seven causes of incest as a form of irresponsible sexual behaviour (7mks)
- b) State similarities between traditional African and Christian view on work (7mks)
- c) State Six causes of single parenthood in Kenya (6mks)
- 6 a) Give FOUR reasons why Christians are opposed Euthanasia (8mks)
- b) What are the positive effects of the use of mobile phones to families in Kenya (6mks)
- c) Outline SIX roles of the youth in the church in carrying out environmental restoration in Kenya (6mks)



**ACK MASENO WEST JOINT EXAMINATION**  
**KENYA CERTIFICATE OF SECONDARY EDUCATION**

101/3

ENGLISH PAPER 3

March 2025

TIME: 2½ hours

**INSTRUCTIONS TO CANDIDATES:-**

- *Write your name and index number in the spaces provided above.*
- *Sign and write the date of examination in the spaces provided above.*
- *Answer **THREE** questions **ONLY**.*
- *Questions **one** and **two** are compulsory.*
- *Each of your essay must not exceed **450** words.*
- ***ALL** answers must be written in **Blue ink**.*

**For Examiner's Use Only:**

Question	Maximum Score	Candidate's Score
1	20	
2	20	
3	20	
<b>TOTAL</b>	<b>60</b>	

*This paper consists of 2 printed pages. Ensure none is missing.*

**1. Imaginative composition (compulsory) (20mks)**

- a) Write a composition beginning;

As I walked along the lonely path that evening, it was evident that I would reach home late

.....

OR

- b) Write a composition that explains the saying; "pride comes before a fall,"

**2. Compulsory text.**

**Fathers of nations by Paul B Vitta**

"Betrayal pervades every level of the society. "Basing your illustrations on Fathers of Nations by Paul B Vitta, write a composition to show the truth of this assertion (20 mks)

**3. Essay based on optional text. (20mks)**

EITHER

- a) **The short story (a silent song by other stories)**

Drawing illustrations from Meja Mwangi's "An Incident in the Park," write an essay to discuss the problems of urbanization

OR

- b) **The play; Parliament of Owls by Adipo Sidang**

Misuse of power is a common phenomenon in most African countries validate this statement basing your argument on the play Parliament of Owls

OR

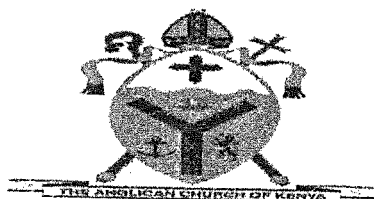
- c) **The novel ;An Artist of the Floating World**

Noriko 's marriage negotiations have been used as a means to reveal Ono's past .justify this statement using illustrations' from the novel An Artist of the Floating World

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NAME.....INDEXNO.....ADM NO.....

SCHOOL.....SIGN.....DATE.....



**ACK MASENO WEST JOINT EXAMINATION  
KENYA CERTIFICATE OF SECONDARY EDUCATION**

**ENGLISH 101/2**

**ENGLISH PAPER 2**

**MARCH 2025**

**INSTRUCTIONS TO CANDIDATES**

1. Write your name, admission number, signature and date
2. Answer ALL questions in the spaces provided.
3. This paper has 11 printed pages. Check and ascertain that you have all the pages.

**FOR EXAMINER'S USE ONLY**

QUESTION	MAX SCORE	CANDIDATE'S SCORE
1. COMPREHENSION	20	
2. EXCERPT	25	
3. NARRATIVE	20	
4. GRAMMAR	15	
TOTAL	80	

## 1. COMPREHENSION

Read the passage below and then answer the questions that follow:

For Africans living abroad, there is nothing more irritating than the constant diet of negative news on Africa. The only **silver lining** is that Africa is way down the list of news importance for the Western media. Most of the time Africa is ignored but if it does not make it into the newspapers, radios or TV, then it is always portrayed as sinking in corruption, wars, famine and disease. If you set out to find a positive story on Africa, you may have to wait until your grandchildren have grown old.

What is more unfortunate is that whereas the rest of the world is divided into nations, Africa is lumped into the one big **sorry** mass. A civil war in a tiny country in Africa elicits screaming headlines such as "Africa returns to barbarity". Civil wars in Europe are not European Civil wars but civil wars in Bosnia, Serbia and so on. No one bothers to mention that out of Africa's 54 countries, only two may be engaged in civil wars. That means that 52 countries are peaceful. But the impression that you get from the western media is that all of Africa is at war with itself.

The same goes for diseases, especially Aids. Hardly does a week go by without the 'experts' from the West predicting how Africa's entire population will be wiped out in fifty years' time. If all the predictions made about the impact of Aids had been correct, most African countries would have been entirely depopulated by now. According to the Western media, Africa is corrupt. All of Africa, all the time. It is interesting to note that in America, for example only the executives of a given company are said to be corrupt while all the African leaders are seen as being **irredeemably** corrupt. The point being put across is that Africa is guilty unless proven innocent.

Western journalists assigned to cover Africa are in most cases the most junior and the least experience in the organization. They are given this version of a 'Hopeless Continent' for so long that when they land in any African country, they immediately set out to confirm their prejudices. And you can always find what you are looking for. The situation is similar to the search of weapons of mass destruction in Iraq. In Africa, Western journalists set out to find corruption, decay and mismanagement. And if they cannot find it, they will invent it on the basis that "it must be there somewhere". The causes of this generalized negative view of Africa are complex.

When you confront Western journalists, they deny that their view of Africa is prejudiced. They are probably telling the truth because they report what they see – but they see what they want to see. And what they want to see, subconsciously is a version of backward, primitive and uncivilized Africa. So, while we feel irritated and even angered by the Western media's portrayal of Africa, we must remember that many journalists cannot help but see Africa the way they are programmed to do. The only way this can change is if the programming is changed. But how do you go about doing so? The first step is to create space for dialogue between the Western media and Africans. It is during such discussions that Africans will be

able to tell their side of the story. If this happens, then the Western media will see Africa as we do – a glorious continent full of promise but going through a rough time at present.

a. What is the likelihood of finding a positive story on Africa? (2mks)

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b. Why are Bosnia and Serbia mentioned? (3 marks)

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c. Why is the word 'experts' on the third paragraph put in quotation marks? (2 marks)

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d. Rewrite the following sentence to begin: Had .....

"If all the predictions made about the impact of Aids had been correct, most African countries would have been entirely depopulated by now." (1 mark)

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e. According to the passage is Africa more corrupt than America? Explain your answer. (3 marks)

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f. Give two reasons why African stories are mostly assigned to the most junior and inexperienced journalists. (4 marks)

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g. How can we tell that the author is an African? (2 marks)

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h. Explain the meaning of the following expressions as used in the passage: (3 marks)

- i) Silver lining  
.....
- ii) Sorry  
.....
- iii) Irredeemably.....

## 2. EXCERPT

Read the excerpt below and then answer the questions that follow.

**NICOLE:** Why can't you have him prosecuted? We all know we are in the most seismically active area in the Caribbean. Aren't we sitting on a time bomb?

**MOSSI:** (*In a low tone*) Shsss...shhsss...can you even dare mention that? Haven't you heard how dangerous he is? I am sure you have heard his name mentioned several times in connection with the mysterious disappearance of people in this town. He is the man behind the murderous Black Swan gang. This gang is responsible for most of the shootings and violence you read about in our newspapers all the time. What's more, he has been selling drugs, I think all his life. He is responsible for our municipality's **reputation** as a key location in narcotics trafficking. And he has ruined lives! In fact, if you know of any child who has dropped out of school because of drugs, or has become a cabbage because of drugs, or has died because of drugs, or roams aimlessly in the streets because of drugs, or has lost their minds, or has become whatever else you can think of because of drugs, that's the work of Seymour! And you know what?

**NICOLE:** Yes?

**MOSSI:** The people elected him overwhelmingly! He gave out a lot of drug money, of course! And as you know, he intimates people with his law degree. But in truth, he never studied law and does not know a single word in law! He went downtown and got a degree certificate printed. So in reality he knows as much law as does a he goat that he is! (*Pauses*) You see now what I am saying? A Council Chamber of people's representatives that should be populated by men and women of honour is now a congregation of robbers, pirates, nymphomaniacs, murderers and drug dealers.

**NICOLE:** I keep wondering, Sir, why wouldn't you, as Mayor, have these people charged in court if you have always had this information? Haven't you **abdicated** your duty by not having them prosecuted in court?

**MOSSI:** Prosecute them? Where? Take them to our courts? Before our judges? Don't you know these judges are themselves worse than temple robbers? Don't you know they are part of this **syndicate**? Why can't you understand my situation? I can't change anything as Mayor. Do you know what is happening right now, for example?

**NICOLE:** I have no idea.

**MOSSI:** The Councillors and Aldermen are being mobilized against me. A section of the municipal leadership is demanding that I approve a budget reallocation so as to give each Council member money to fight court cases that might come up against them following the exposures in *The Samaritan*. All this money will end up in pockets of the judges and lawyers. If I don't do this, they will pass a vote of no confidence in me. Thereafter, they will reallocate the budget to cater for their interests.

**NICOLE:** Does that mean the whole of what we call our Municipal Council is a criminal enterprise?

**MOSSI:** One could easily conclude so, but of course with some exceptions. There are some very good and wonderful in that Chamber, and in the Municipal administration. In fact, take me, for example, I have been trying the best I can to protect public interest.

**Questions**

a) Briefly explain what happens just before this excerpt? (3mks)

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b) From your knowledge of the text, why is Mossi having the above conversation with Nicole (3mks)

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c) According to the excerpt, who is in charge of the Black Swan gang mentioned in this excerpt? (1mk)

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d) Explain any **two** thematic concerns raised in this excerpt? (4mks)

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e) Identify and illustrate any two character traits of Nicole as revealed in this excerpt?  
(4mks)

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f) How are the people responsible for the evils that have befallen them according to this excerpt? (3mks)

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g) Identify and illustrate any two aspects of style used in this excerpt? (4mks)

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f) Explain the meaning of the following words as used in this excerpt? (3mks)

- i) abdicated.....
- ii) reputation.....
- iii) syndicate.....

### 3. ORAL NARRATIVE (20MKS)

Long long ago, there was a poor man who did not have parents or even a piece of land. He lived on the meat of the wild animals he used to hunt.

One day, the poor man went hunting as usual, but was unlucky with every animal he tried to catch. First, it was a rabbit. His arrow hit the leg but the animal fled at the speed of a blinking eye lid. Next it was an antelope and her children. It would have been easy for the hunter to kill one of the kids, but seeing how weak they were, he had mercy on them. Then he wanted to kill the mother, but seeing that the children ran to her for protection, he could not kill her. So even this chance escaped him.

While at the stream, he saw a bird he had never seen in his life. It was beautiful, with feathers of all colours. It did not seem to be afraid of him, for it kept coming closer to him even when he waved it away. Eventually, the bird came and sat on his lap and began to talk to him.

“I know you have been suffering,” the bird said. “I am going to help you, but you must promise me one thing. If you squeeze me, food will come out of me. Enough for you, your wife and children. However, you must never squeeze out more food than you need. Do you promise not to squeeze out more food than you need?”

The man promised that he would squeeze out only enough for himself. He told the bird that he did not yet have a wife and children because he was too poor to marry. The bird told him that as soon as they got to his house, it would help him squeeze out property to enable him pay dowry for a wife.

When they got to the house, the bird started singing:

Squeeze me, squeeze me

Squeeze me squeeze me.

The man squeezed, and out came cows and goats.

The man got married and got children. And he lived happily with his family, always squeezing out food from the bird whenever it was needed.

One day the man was angry. Instead of seeking a solution to what had angered him, he went for the bird. The bird sang as usual:

Squeeze me, squeeze me

Squeeze me, squeeze me

The man squeezed the bird and as usual food came out. However, when the food was enough for the family, the man did not stop squeezing the bird. He continued squeezing the bird, now weak, sang:

Squee.....sque....eze me

Squee.....sque....eze me

The man only stopped squeezing when the bird could not make sound as it was dead. The man tried to fan it back to life but it was too late.

He was left with a mountain of food which eventually went bad as he could not finish it. Owing to his angry mood, his wife and children also left him. He ended up poorer than before and eventually died in misery.

**(From: Oral Literature of the Embu and Mbeere by Chesaina, C)**

i) How did the bird in the story change the fortunes of the Man. (3mks)

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ii) Identify and illustrate any three features of oral narratives evident in this story. (6mks)

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iii) Explain any two functions of the song in this narrative? (2mks)

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iv) With an illustration, identify two character traits of the man in this story. (4mks)

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v) Identify and illustrate the economic activity mentioned in the story? (2mks)

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vi) What lessons do we draw from this story. (3mks)

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4. GRAMMAR

(15MKS)

a) Rewrite the following sentences according to the instructions given after each.

Do not change the meaning.

(4mks)

i) It was difficult but we completed the task. (Begin: Difficult...)

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.....

ii) He said that he had not insulted me. (Use : 'denied'...)

.....  
.....

iii) I will not at any cost support your evil plans. (Begin: At no cost...)

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.....

iv) She is renovating her house so that she may sell it. (Rewrite using: 'with a view')

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.....

b) Complete each of the following sentences using the correct phrasal verb formed from the word give in brackets. (4mks)

i) Kirui ..... of the London Marathon due to a knee injury. (pull)

ii) It is clear from her looks that Lydia ..... her mother. (take)

iii) The municipal council fire brigade ..... the fire after many hours. (put)

iv) The young should ..... to adults for guidance. (look)

c) Fill in the blanks with the correct prepositions. (3mks)

i) Our expenditure.....fuel has increased due to high taxation measures.

ii) Jane is good.....spoken word.

iii) The grade three pupils prefer swimming.....playing chess.

d) Complete the following sentences using an appropriate question tag.

(2mks)

i) She plants roses,.....

ii) Let's go swimming,.....

iii) They arrived late at the venue,.....

e) Use the correct collective noun to fill in the gaps in the following sentences.(2mks)

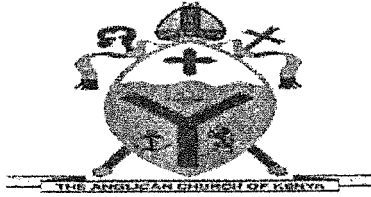
i) The guest of honour was given a.....of flowers.

ii) She put a.....of salt in her food.

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NAME.....INDEXNO.....ADM NO.....

SCHOOL.....SIGN.....DATE.....



**ACK MASENO WEST JOINT EXAMINATION  
KENYA CERTIFICATE OF SECONDARY EDUCATION**

101/1  
ENGLISH  
PAPER 1  
(FUNCTIONAL SKILLS)

**INSTRUCTIONS TO CANDIDATES.**

- a) Write your name and admission number in the spaces provided.
- b) Answer all the questions in this paper.
- c) All your answers must be written in the spaces provided in the question paper.
- d) This paper consists of 6 printed pages.
- e) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no questions are missing.
- f) Candidates must answer the questions in English.

For Examiner's use only.

Question	Maximum Score	Candidate's Score
1	20	
2	10	
3	30	



Blank lined paper with horizontal ruling lines.

**2. CLOZE TEST (10MKS)**

Read the passage below and fill in the blank spaces with the most appropriate word.

Any accomplishment, whether large (a) \_\_\_\_\_ small, is a source of ~~improvi~~ improvement (b) \_\_\_\_\_ self-esteem if it is perceived as (c) \_\_\_\_\_. For some, it might be success (d) \_\_\_\_\_ a test or exam that contributes to self-esteem. For others, the purchase of (e) \_\_\_\_\_ new ~~hime~~ home or even a craft or hobby that is well done (f) \_\_\_\_\_ be the contributing factor. In general self-esteem is nourished by that (g) \_\_\_\_\_ is considered precious and costs energy to acquire.

Finally, we must say that although basic self-esteem (h) \_\_\_\_\_ constant, one's self-concept can easily change. For example, a woman who has an open and sincere (i) \_\_\_\_\_ with her husband in which she has heard words of affirmation and approval will have a much higher self-esteem (j) \_\_\_\_\_ normal during hours (or days) following the conversation.

Adapted from: Discover your worth – by Dr. Julian Melgosa.

**3. ORAL SKILLS (30MKS)**

4.

a) Read the poem below and answer the questions that follow.

Make me a grave whenever you will  
In a lowly plain or a lofty hill,  
Make it among earth's humblest graves,  
But not in a land where men are slaves.

I could not rest if around my grave,  
I heard the steps of trembling slave,  
His shadow above my silent tomb  
Would make it a fearful gloom,

I could not rest if I heard the tread,  
Of a coffle going to the shambles led,  
And the motter's shiek of wild despair  
Rise like a curse on the trembling air

(By Frances Ellen Watkins Harper)

- i) Describe the rhyme scheme of the above poem. (2mks)

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- ii) Apart from rhyme, identify and illustrate two other ways in which the poet has achieved rhythm. (4mks)

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- iii) How would you recite the second line of the poem? (2mks)

iv) .....

- b) Study the genre below and answer the questions that follow.

Challenger: Riddle riddle.

Respondent: Riddle come.

Challenger: I have a round hut that has no door.

Respondent: It is an orange.

Challenger: That is not the answer, try again.

Respondent: It is an apple.

Challenger: That is not the answer either, give me a town.

Respondent: I give you Siaya town.

Challenger: I went to Siaya town and they asked me to greet you, the answer is an egg.

1. Identify the genre above.

(1mk)

.....  
.....  
.....  
.....

2. Illustrate the following parts of the riddling process.

(6mks)

- i) Response(s).....
- ii) Challenge.....
- iii) Acceptance.....
- iv) Answer.....
- v) Prize.....
- vi) Invitation.....

c) Pick the odd word out from the following list based on the pronunciation of the underlined letters.

(4mks)

- i) Bread, pleasant, please, weapon.
- ii) Pot, front, monk, oven
- iii) Smooth, broth, northern, southern.
- iv) Lake, take, necklace, race.

d) Underline the syllable that that you would stress in the following words.

(4mks)

- i) Ex . cir . cise
- ii) A . buse
- iii) Sea . son
- iv) Man . age

e) Underline what circumstances would you be forced to interrupt your classmates during a group discussion?

(4mks)

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NAME.....INDEXNO.....ADM NO.....

SCHOOL.....SIGN.....DATE.....



**ACK MASENO WEST JOINT EXAMINATION  
KENYA CERTIFICATE OF SECONDARY EDUCATION**

233/3

**CHEMISTRY**

**(PRACTICAL)**

**PAPER 3**

**MARCH – APRIL-2025**

**TIME: 2<sup>1</sup>/<sub>4</sub> HOURS**

**INSTRUCTIONS TO CANDIDATES**

1. *Write your name, admission number in the space provided.*
2. *Answer all the questions in the spaces provided*
3. *All working must be clearly shown where necessary.*
4. *You are not allowed to start working with the apparatus for the first 15 minutes. This time is to enable you read the question paper and make sure you have all the requirements.*
5. *Candidates should check the question paper to ascertain that all the 7 pages are printed as indicated and that no questions are missing.*

**FOR EXAMINERS USE ONLY**

QUESTION	MARKS	CANDIDATES SCORE
1	21	
2	13	
3	6	
<b>TOTAL</b>	<b>40</b>	

You are provided with

- 4g of solid A , hydrated ethanedioic acid ( $\text{H}_2\text{C}_2\text{O}_4 \cdot \text{XH}_2\text{O}$ ).
- Solution B , 0.2M sodium hydroxide.
- You are required to determine:
  - i) Solubility of A
  - ii) The value of X in the formula  $\text{H}_2\text{C}_2\text{O}_4 \cdot \text{XH}_2\text{O}$

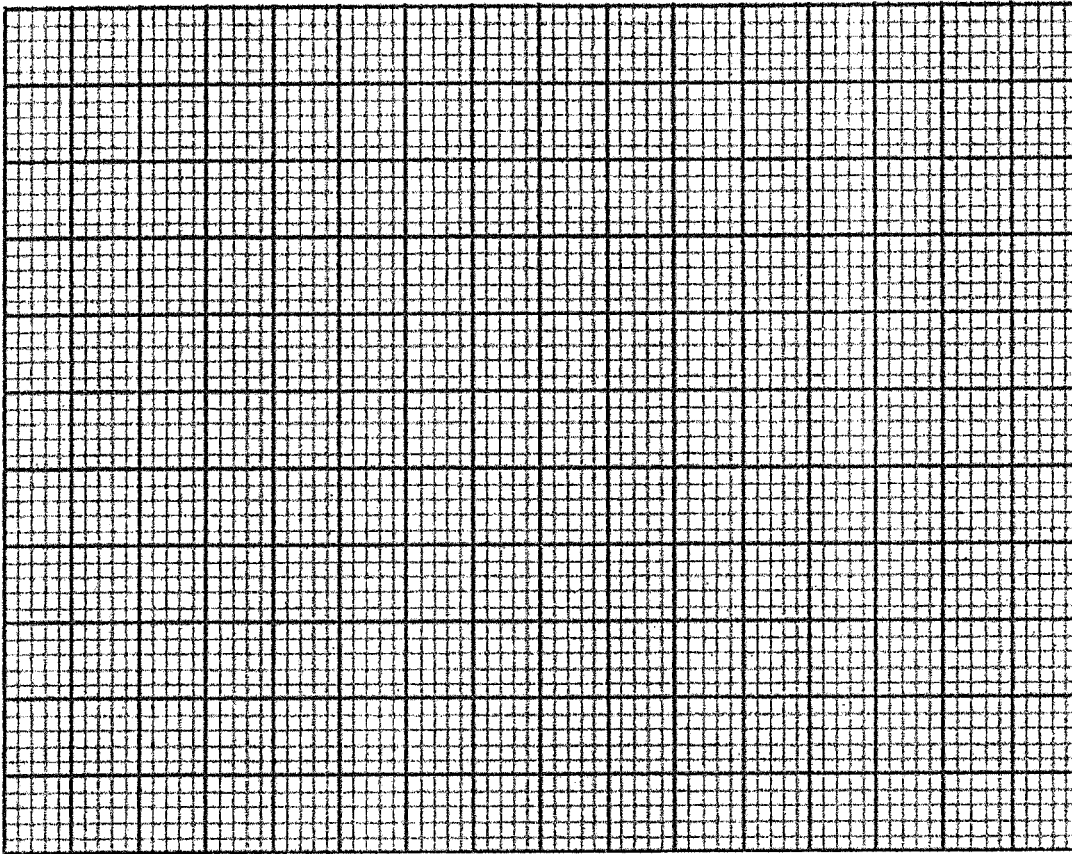
### Procedure I

1. Fill the burette with distilled water.
2. Place all the solid A into a boiling tube.
3. Transfer  $4\text{cm}^3$  of distilled water from the burette into the boiling tube containing solid A.
4. Heat the mixture while stirring with the thermometer to a temperature of  $80^\circ\text{C}$
5. Allow the solution to cool while stirring with the thermometer.
6. Record the temperature at which crystal start to form in the table below.
7. Add a further  $2\text{cm}^3$  of distilled water from the burette to the mixture.
8. Repeat the procedure from step 4 to step 6 above and record the crystallization temperatures.
9. Complete the table 1 below by adding volumes of distilled water as indicated, recording the crystallization temperatures and calculating the solubility of A at different temperatures. (Preserve the contents of the boiling tube for procedure II)

Table 1

Volume of distilled water in the boiling tube ( $\text{cm}^3$ )	Crystallization temperature ( $^\circ\text{C}$ )	Solubility of solid A in (g/100g of water)
4		
6		
8		
10		
12		

- a) On the grid provided, plot the graph of solubility of solid A against crystallization temperature. (3mks)
- (5mks)



b) From the graph determine:

i) Solubility of A at  $55^{\circ}\text{C}$  (1mk)

ii) The temperature at which 80g of A dissolves in 100g of water (1mk)

iii) How does solubility of A vary with temperature? (1mk)

### Procedure II

1. Transfer the contents of the boiling tube into a clean 250ml volumetric flask . Add distilled water to the mark. Label this resulting solution A.
2. Fill a burette with solution A .
3. Pipette 25cm<sup>3</sup> of solution B into a clean 250ml conical flask . Add 3 drops of phenolphthalein indicator .
4. Titrate solution A against B to an accurate end point. Record your results in the table II below.
5. Repeat the experiment two more times and complete the table II below.

<b>Table II</b>	<b>I</b>	<b>II</b>	<b>III</b>
Final burette reading(cm <sup>3</sup> )			
Initial burette reading(cm <sup>3</sup> )			
Volume of solution A used (cm <sup>3</sup> )			

(4mks)

- i) Calculate the average volume of solution A used (1mk)
- ii) Calculate the number of moles of solution B used (1mk)
- iii) Calculate the number of moles of solution A used (the dibasic acid)(1mk)
- iv) Calculate the concentration of solution A in moles per litre (1mk)
- v) Determine the value of X in the formula H<sub>2</sub>C<sub>2</sub>O<sub>4</sub>. XH<sub>2</sub>O (2mks)

2. You are provided with solid L which is a mixture. Carry out the tests below. Record your observations and inferences in the table below.

i. Place all the solid in a boiling tube and add  $10\text{cm}^3$  of distilled water.

ii. Shake and then filter the mixture.

iii. Keep both the filtrate and residue.

a) Divide the filtrate into 4 portions.

i. To the first portion, add a sodium hydroxide solution drop wise until in excess.

Observation	Inferences
(1mk)	(1mk)

ii. Into the second portion, dip a clean metallic spatula into the filtrate and ignite over a non-luminous flame.

Observation	Inferences
( $\frac{1}{2}$ mk)	( $\frac{1}{2}$ mk)

iii. To the third portion, add 3 drops of Lead (II) nitrate solution and warm.

Observation	Inferences
(1mk)	( 1mk)

iv. To the fourth portion add 2 – 3 drops to acidified potassium dichromate (VI)

Observation	Inferences
( 1mk)	( 1mk)

b) i) Transfer the entire residue into a test tube and add nitric (V) acid drop wise and shake until all the solid dissolves . Divide the solution into 3 portions.

Observation	Inferences
(1mk)	( 1mk)

ii). To the first portion, add sodium hydroxide solution drop wise until in excess.

Observation	Inferences
(1mk)	( 1mk)

iii) To the second portion, add aqueous ammonia solution drop wise until in excess.

Observation	Inferences
(1mk)	( 1mk)

3. You are provided with an organic compound F. Carry out the test below and record your observations and inferences in the spaces provided.

a). Transfer all solid F into a clean boiling tube and add about  $10\text{cm}^3$  of distilled water and shake thoroughly.

Observation	Inferences
(1mk)	( $\frac{1}{2}$ mk)

b) To about  $2\text{cm}^3$  of solution F in a test tube, add 3 drops of acidified potassium manganate (VII) solution and shake thoroughly.

Observation	Inferences
(1mk)	( 1mk)

c) To about  $2\text{cm}^3$  of solution F dip a piece of universal indicator paper provided.

Observation	Inferences
( $\frac{1}{2}$ mk)	( $\frac{1}{2}$ mk)

d) To about  $2\text{cm}^3$  of solution F, add small amount of solid sodium hydrogen carbonate.

Observation	Inferences
(1mk)	( $\frac{1}{2}$ mk)



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**ACK MASENO WEST JOINT EXAMINATION  
KENYA CERTIFICATE OF SECONDARY EDUCATION**

**CHEMISTRY PAPER 2**

**(THEORY)**

233/2

TIME: 2HRS

**INSTRUCTIONS TO CANDIDATES**

- Write your name and index number in the spaces provided
- Sign and write the date of the examination in the spaces provided
- All working must be clearly shown where necessary
- Attempt all the questions in the spaces provided
- Mathematical tables and electronic calculators may be used
- Answer the questions in English

Question	Max. score	Candidate's score
1	12	
2	9	
3	12	
4	12	
5	12	
6	11	
7	12	
<b>TOTAL</b>	<b>80</b>	

233/2

**CHEMISTRY**

1.

a.) The grid below shows part of the periodic table. Study it and answer the questions that follow. (The letters do not represent the actual symbols of the elements)

A								A	
						B		C	
D	J					E	F	G	H
	I								

i.) Explain why element A can be placed in the two positions as shown above (2mks)

.....  
.....  
.....

ii.) Identify an element that forms a divalent cation with an electron configuration of 2.8 .....(1mk)

iii.) The oxide of element E reacts with both dilute hydrochloric acid and potassium hydroxide solution to form a salt.

I. Name the property of this oxide .....(1mk)

II. Give the name of another element, other than E, whose hydroxide has the same property .....(1mk)

iv.) With a reason compare the atomic radius of element E with that of element G (2mks)

.....  
.....  
.....  
.....

b.)  $60\text{cm}^3$  of gas B diffused through a porous pot in 50 seconds. How long would it take  $60\text{cm}^3$  of Sulphur (IV) oxide to diffuse through the same pot under the same conditions? (B=14, S=32, O=16) (2mks)

c.) Use the information in the table below to answer the questions that follow:

Element	Atomic number	Melting point ( $^{\circ}\text{C}$ )
Helium	2	-270.0
Neon	10	-249.0
Argon	18	-189.0
Krypton	36	-157.0
xenon	54	-112.0

(i.) Explain the trend in the melting point of the elements (2mks)

.....  
 .....  
 .....  
 .....

(ii.) State one use of argon (1mk)

.....

2.

(a.)

(i.) Define a strong acid

(1mk)

.....  
.....

(ii.) In an experiment to investigate a property of two acids, M and N, equal volumes of the two acids of the same concentration were each reacted with equal volumes of 2M potassium hydroxide. The results were recorded as shown in the table below:

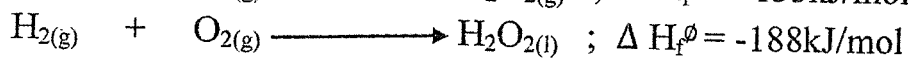
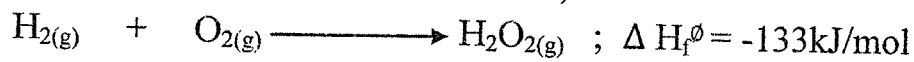
Acid	Rise in temperature, $\Delta T$ ( $^{\circ}\text{C}$ )
M	4
N	2

Which of the following acids is likely to be a weak acid? Explain

.....(2mks)  
.....  
.....

(iii.) On complete dissolution, 2g of ammonium nitrate caused the temperature of 100ml of water in a beaker to drop from  $30^{\circ}\text{C}$  to  $28^{\circ}\text{C}$ . Determine the molar heat of solution of ammonium nitrate. (density of solution =  $1\text{g}/\text{cm}^3$ , specific heat capacity of solution =  $4,200\text{J}/\text{kg}\cdot\text{K}$ , N=14, O=16, H=1)

(b.) The thermochemical equations for the formation of hydrogen peroxide under standard conditions are;

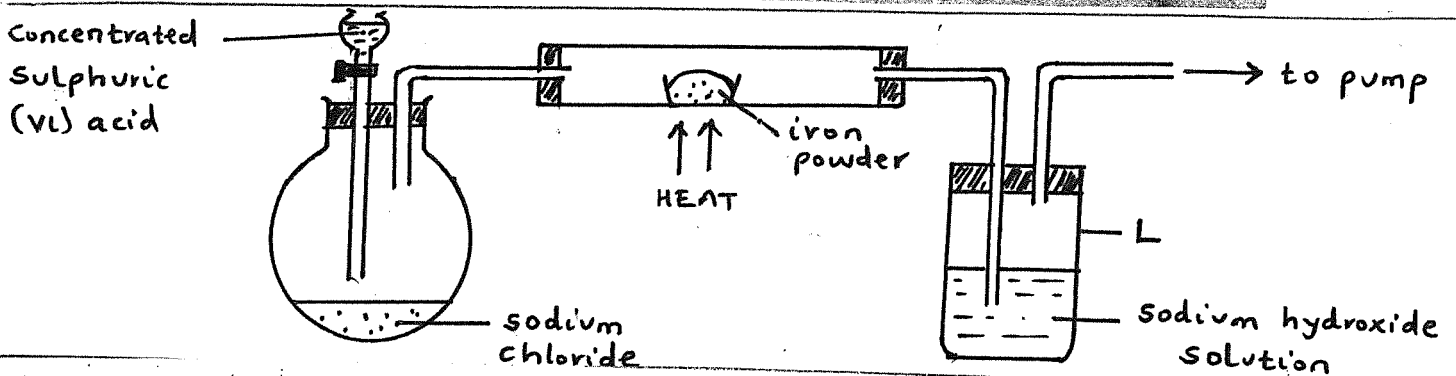


Determine the molar heat of vaporization of hydrogen peroxide

(3mks)

3.

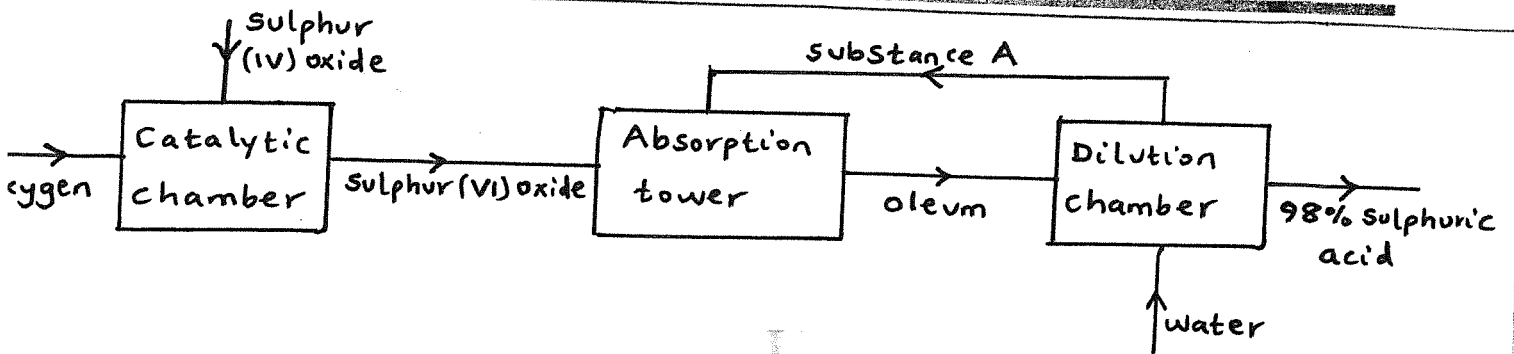
(a) The setup below was used to prepare hydrogen chloride gas and react it with iron powder. Study it and answer the questions that follows:



At the end of the reaction, the iron powder turned into a light green solid.

- i.) Identify the light green solid .....(1mk)
- ii.) At the beginning of the experiment, the pH of the solution in container L was about 14.0. at the end the pH was found to be 2.0. explain (2mks)  
.....  
.....  
.....  
.....
- iii.) State the property of concentrated sulphuric (VI) acid that makes the reaction possible (1mk)  
.....  
.....

(b.) The flowchart below shows some of the processes involved in large scale production of sulphuric (VI) acid. Use it to answer the questions that follows:



(i.) Describe how oxygen is obtained from air on a large scale (3mks)

.....  
 .....  
 .....

(ii.)

I. Identify substance A .....(1mk)

II. Write an equation for the reaction that takes place in the absorption tower (1mk)

.....  
 .....

(iii.) Vanadium (V) oxide is the commonly used catalyst in the contact process

I. Name another catalyst which can be used in the process .....(1mk)

II. Give two commercial uses of sulphuric (VI) acid (1mk)

.....  
 .....

Intermediate Y - .....

(ii.) Name the process which leads to the formation of substance Z from the intermediate Y ..... (1mk)

(iii.) Identify the reagent and the condition for step I

I. Reagent ..... (1mk)

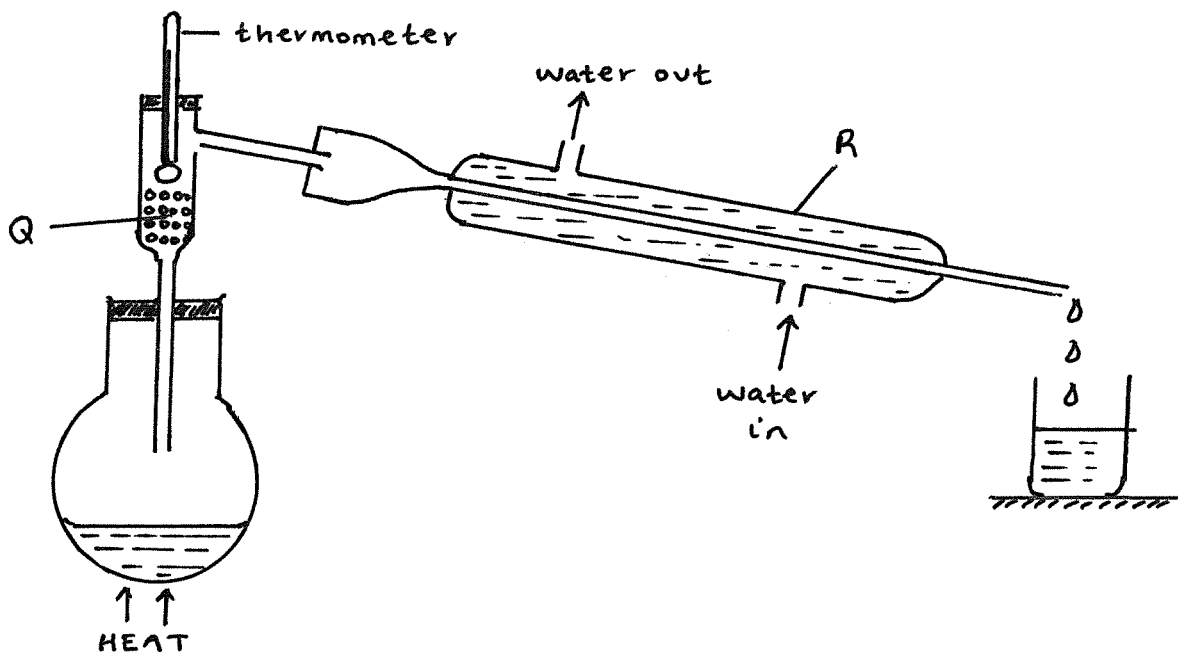
II. Condition ..... (1mk)

(iv.) State one disadvantage of continued use of items made from compound formed on step I (1mk)

.....  
.....

5.

(a.) The setup below was used to separate a mixture of methanol and propanol. Study it and answer the question that follow:



(i.) Name apparatus R ..... (1mk)

(ii.) State the function of part Q ..... (1mk)

.....  
.....

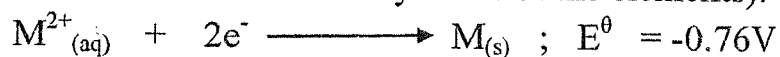


- (c.) Explain how calcium Hydrogen carbonate can end up in bore-hole water causing temporary water hardness (2mks)

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.....  
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6.

- (a.) The following are standard reduction potentials of some elements (the letters are not the actual symbols of the elements):



- i.) Draw a well labelled diagram of an M-P galvanic cell (3mks)

- ii.) Determine the electromotive force (e.m.f) of the M-P galvanic cell drawn in 6 (a.) i.) above (2mks)

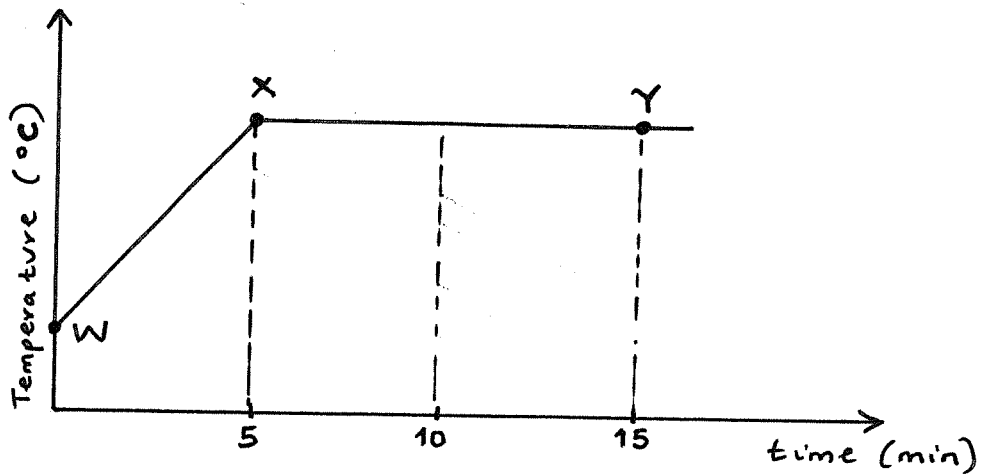
(iii.) Give the reason why the method can be used to separate the mixture .....(1mk)

.....  
.....

(iv.) Which liquid will be obtained first as the distillate? Explain .....(2mks)

.....  
.....

(b.) The graph below shows a curve obtained when a sample of water at 20°C was heated for 10 minutes



(i.) With a reason state whether the sample is pure or not (2mks)

.....  
.....  
.....

(ii.) State what happens to the water molecules between points W and X .....(1mk)

.....

(iii.) Explain the shape of part XY on the graph (2mks)

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iii.) The standard reduction potential of iron is  $-0.44V$  select the element that would best protect iron from rusting (1mk)  
.....

iv.) Determine whether or not a solution of a nitrate metal of Q can be stored in a container made of metal N (2mks)

(b.) Aluminium metal can be extracted from the molten ore aluminium oxide. 1800 Kg of aluminium was obtained after electrolysis process (Al=27)

(i.) Write a half equation of the reaction that forms aluminium metal .....(1mk)  
.....

(ii.) Calculate the quantity of electricity passed in faradays (2mks)

7.

(a.) Excess zinc carbonate was put in a beaker containing  $100\text{cm}^3$  of dilute hydrochloric acid. The beaker was then placed on a balance and the total loss in mass recorded after every two minutes as shown in the table below

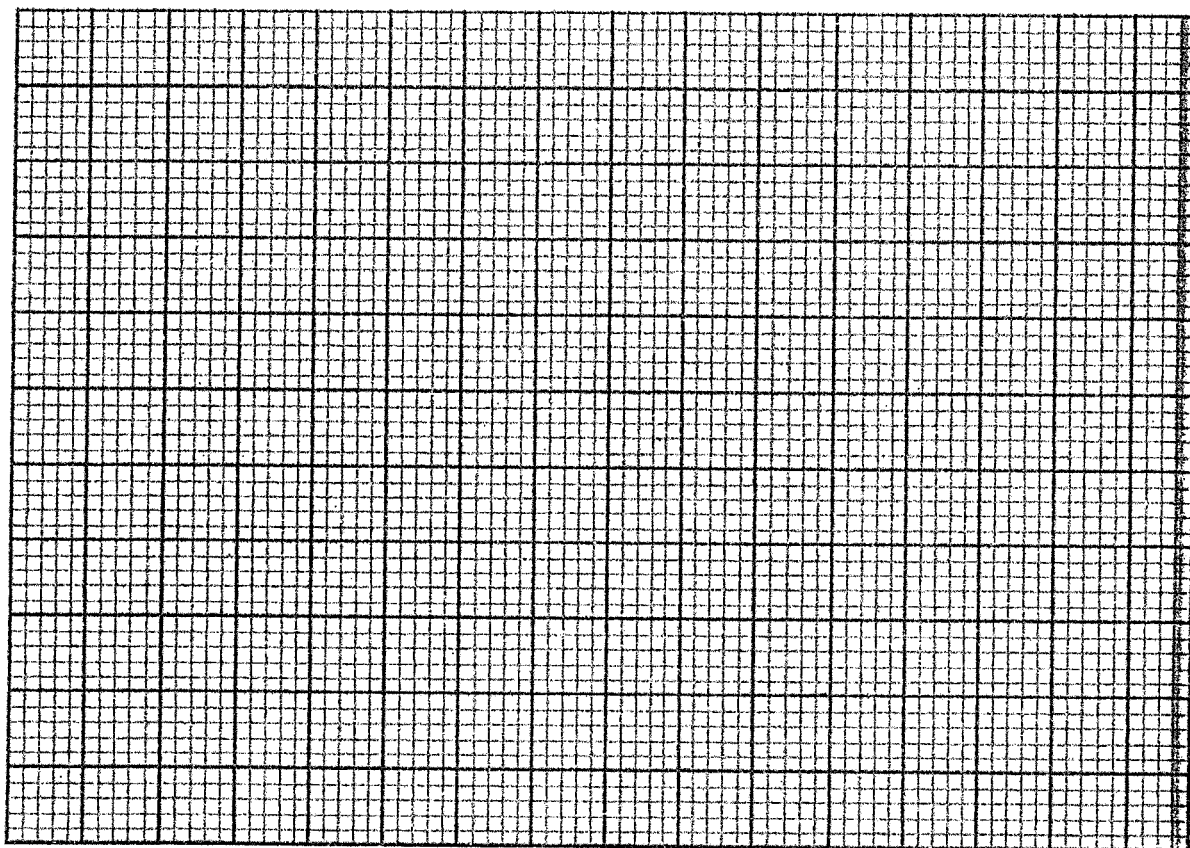
Time (mins)	0	2	4	6	8	10
Total loss in mass(g)	0	1.8	2.45	2.95	3.2	3.3

i.) Explain why there was a loss in mass (1mk)

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.....

ii.) Plot a graph of total loss in mass against time

(3ks)



iii.) From the graph calculate the average rate of change of mass between:

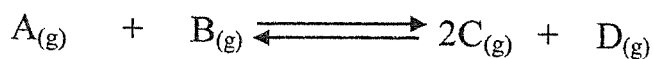
(I.) 0 and 2 minutes (1ks)

(II.) 6 and 8 minutes (1ks)

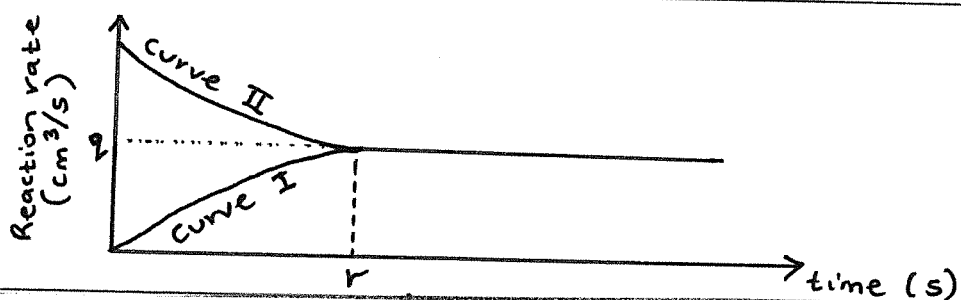
iv.) Explain the difference in the average rates of change in mass in iii.)(I) and (II) (2 marks)

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(b.) A dynamic equilibrium is represented by the following general equation:



The sketch below shows how the rate of the above reaction varies with time :



i.) Which of the two curves represents the reverse reaction. Give a reason for your answer (2 marks)

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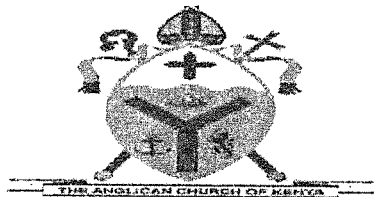
ii.) What the significance of points 'q' and 'r' on the graph? (2 marks)

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.....  
.....



NAME.....INDEXNO.....ADM NO.....

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**ACK MASENO WEST JOINT EXAMINATION  
KENYA CERTIFICATE OF SECONDARY EDUCATION**

233/1

CHEMISTRY (Theory)

Paper 1

March – 2025 – 2 hours

**Instructions to candidates**

- (a) Write your name and index number in the spaces provided above.
- (b) Sign and write the date of examination in the spaces provided above.
- (c) Answer **all** the questions in the spaces provided in the question paper.
- (d) **Non-programmable** silent-electronic calculators and KNEC mathematical tables may be used.
- (e) All working **must** be clearly shown where necessary.
- (f) This paper consists of 18 printed pages.
- (g) Candidates should check the question paper to ascertain that all the pages are printed as indicated and that no question are missing.
- (h) Candidates should answer the question in English.

**For Examiner's Use Only**

QUESTIONS	MARKS OUT OF 80
1 – 27	

1. Elements X and Y have atomic numbers of 12 and 16, respectively. Using dots (.) and crosses (x), show how bonding takes place. (3mks)

.....

.....

.....

.....

2. The table below shows elements of group X and group Y of the periodic table. The elements follow each other down the group as in the given order. Group X have a valency of 2.

Group X				Group Y		
Element	P	Q	R	K	L	M
Atomic radius (nm)	14.0	19.5	19.7	5.2	7.9	18.2
Ionic radius (nm)	8.6	11.5	12.4	12.7	16.00	19.4

- a) The atomic radii of elements in group Y are smaller than the corresponding ionic radii for each element. Explain (1mk)

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.....

- b) State the general name given to elements in group X. (1mk)

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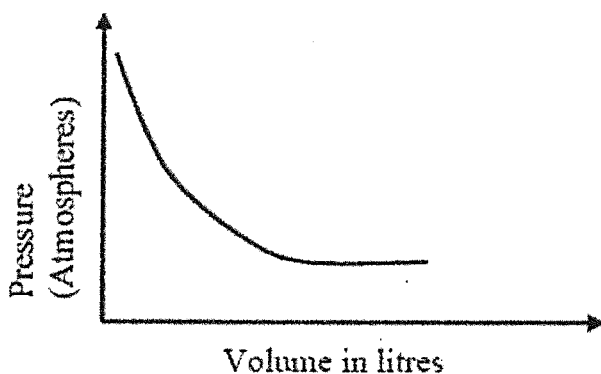
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- c) Give the formula of the compound that would be formed between Q and L (1mk)

.....

.....

3. The graph below shows the behaviour of a fixed mass of a gas at constant temperature.



a) What is the relationship between the volume and the pressure of the gas? (1mk)

.....

.....

b) 3 litres of oxygen gas at one atmosphere pressure were compressed to two atmospheres at constant temperature. Calculate the volume occupied by the oxygen gas. (2mks)

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4. The table below shows some properties of substances A, B and C. Study it and answer the questions that follow.

Substance	Melting point <sup>0</sup> C	Solubility in water	Electrical conductivity	
			Solid state	Molten state
A	659	Insoluble	Good	Good
B	1620	Insoluble	Poor	Poor
C	803	Soluble	Poor	Good

Select substance



I. With a metallic structure. (1mk)

.....

.....

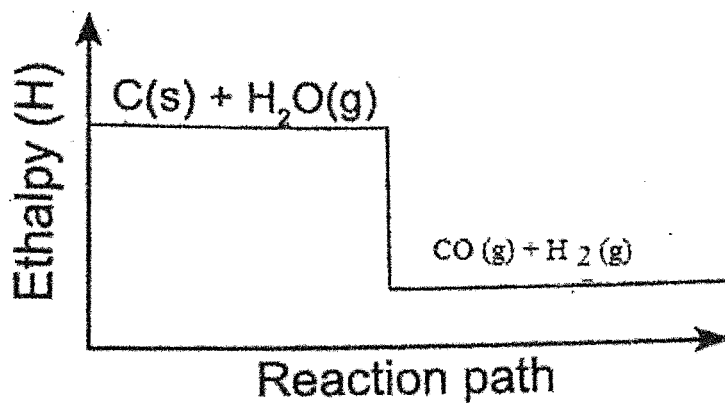
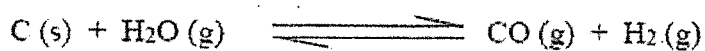
II. Is not likely to be an element. Give a reason. (2mks)

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5. The diagram below is an energy level graph for reactants and products during a chemical



reaction.

a) What would be the effect on the position of equilibrium if temperature is increased? Explain. (1<sup>1</sup>/<sub>2</sub>mk)

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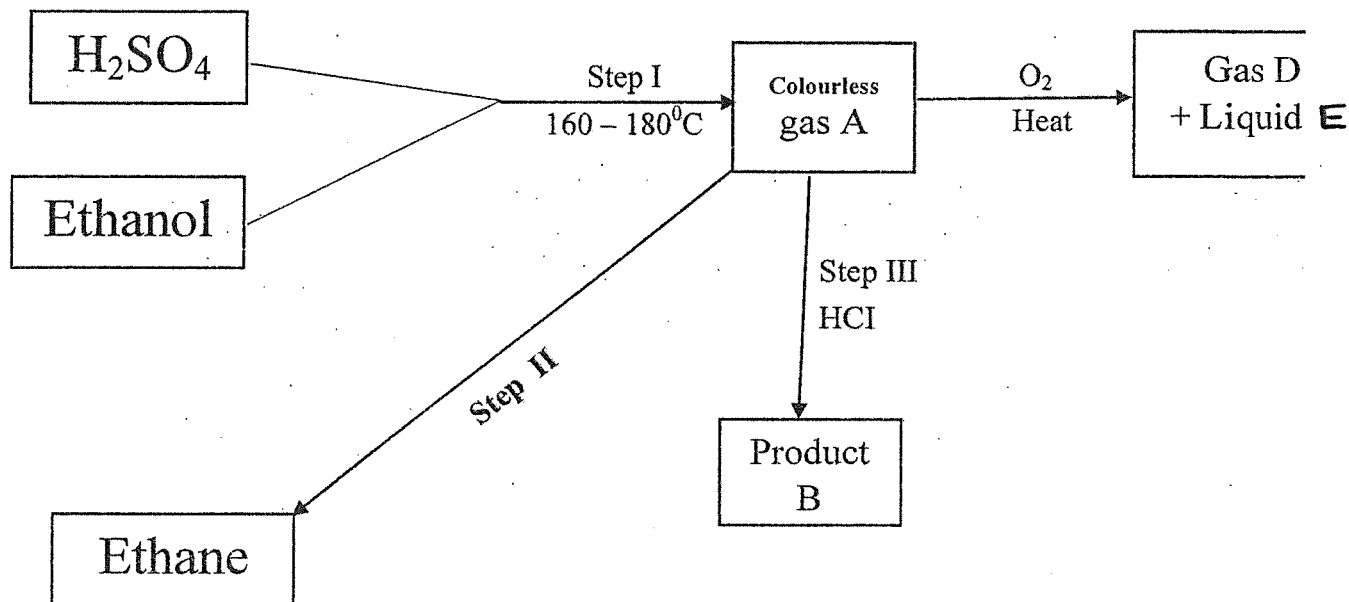
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b) How would a decrease in pressure affect the amount of hydrogen gas? (1½mk)

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 .....

6. Study the reaction scheme below and answer the question that follow



a) Name;

I. Product B: ..... (½mk)

II. Liquid E: ..... (½mk)

b) Name the type of reactions taking place in step I and II

I. Step I: ..... (½mk)

II. Step II: ..... (½mk)

c) State the importance of the reaction taking place in Step II (1mk)

.....  
 .....

7. Urea,  $(\text{NH}_2)_2\text{CO}$ , is prepared by the reaction between ammonia and carbon (IV) oxide.



In one process, 680kg of ammonia were reacted with excess carbon (IV) oxide. Calculate the mass of urea that was formed. (H=1.0, C=12.0, N=14.0, O=16.0 and R.M.M of ammonia = 17) (3mks)

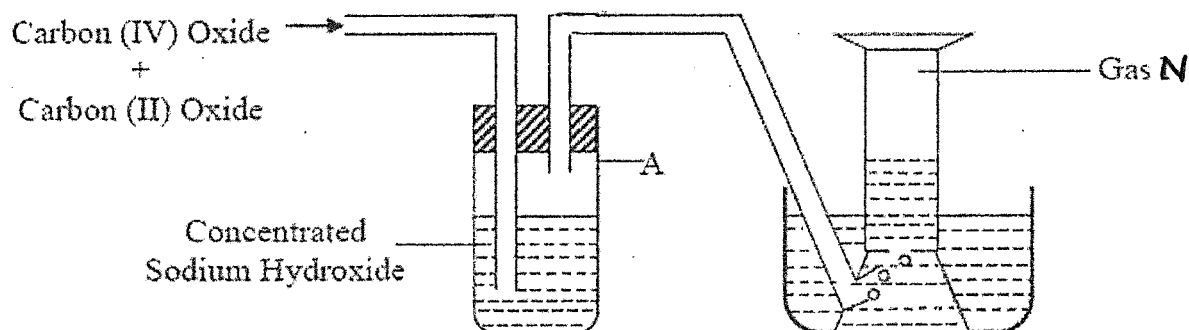
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8. The diagram below represents part of a set up used to prepare and collect gas N.



- a) Name two reagents that are reacted to produce both Carbon (IV) oxide and Carbon (II) oxide. (1mk)

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- b) Write the equation for the reaction which takes place in tube A. (1mk)

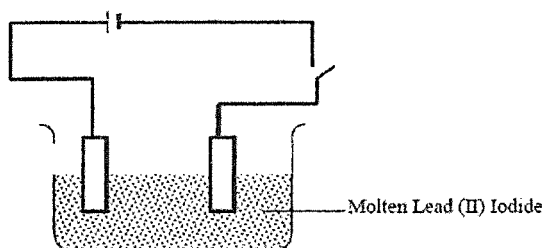
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- c) State the observation made when Gas N reacts with hot Copper (II) oxide. (1mk)

.....

9. The diagram below shows a set-up which was used by a student to investigate the effect of electricity on molten Lead (II) Iodide.



- I. Define the term electrolysis (1mk)

.....

.....

.....

- II. Indicate the anode and cathode (1mk)

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.....

- III. Write the equation of the reaction at anode (1mk)

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.....

10. The table below gives some properties of gases X and Y.

Gas	Density	Effects of $\text{H}_2\text{SO}_4(\text{aq})$	Effects of $\text{NaOH}(\text{aq})$
X	Lighter than air	Reacts to form a salt	Dissolves without reacting
Y	Heavier than air	Not affected	Not affected

- a) Describe how you obtain a sample of Y from a mixture of gases X and Y. (2mks)

.....

.....

b) Suggest a possible identity of gas X. Give a reason for your answer. (1mk)

.....  
.....

11. A white solid M was heated. It produced a brown gas A and a colourless gas. The residue left was yellow after cooling.

I. Name gases A and B. (2mks)

A .....

B .....

II. Write a balanced chemical equation for the decomposition of solid M (1mk)

.....  
.....

12. Aqueous ammonia solution is added to a colourless solution Y. A white precipitate which dissolves in excess ammonia to form a colourless solution P.

a) Identify; (1mk)

I. The Cation present

.....  
.....

II. The white precipitate (1mk)

.....  
.....

b) Write an equation for the formation of the complex ion. (1mk)

.....

13. Below are pH values of some solutions.

Solution	Z	Y	X	W
pH	6.5	13.5	2.2	7.2

Which solution is likely to be

- I. Acidic rain ..... (1mk)
- II. Potassium hydroxide ..... (1mk)
- III. Substance V reacted with both solutions Y and X. What is the nature of V. (1mk)

.....

.....

14. When 0.6g of element M was completely burned in oxygen, all the heat evolved was used to heat  $500\text{cm}^3$  of water, the temperature of the water rose from  $23.0^\circ\text{C}$  to  $32^\circ\text{C}$ . Calculate the Relative Atomic Mass of element M given that the specific heat capacity of water is  $4.2\text{Jg}^{-1}\text{K}^{-1}$ , density of water is  $1.0\text{gcm}^{-3}$  and molar heat of combustion of M is  $380\text{KJ/mol}$ . (3mks)

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15. Naturally occurring magnesium consists of three isotopes:  $78.6\%$   $^{24}\text{Mg}$ ,  $10\%$   $^{25}\text{Mg}$  and  $^{26}\text{Mg}$ . Calculate to one decimal place, the relative atomic mass of magnesium. (3mks)

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16. Describe how a solid sample of copper (II) carbonate can be prepared starting with copper metal. (3mks)

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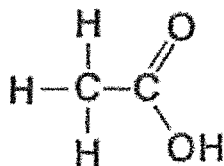
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17. Solid A forms a mixture with liquid B. State two properties of substance A that would make decantation the method of choice for separating the mixture. (2mks)

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18. The structure of ethanoic acid

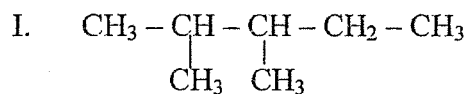


a) State the number of electrons used in bonding in a molecule of ethanoic acid. (1mk)

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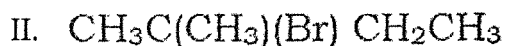
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b) Give the name of the following organic compounds. (2mks)

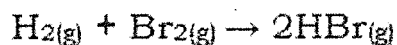


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19. Hydrogen and bromine react according to the equation.



Use the bond energies given below to calculate the heat of formation of hydrogen bromide

Bond	Energy (KJ/mol)
H - H	436
Br - Br	192
H - Br	368

(3mks)

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20. When sulphur is heated in a boiling tube in the absence of air, the yellow crystals melts into a golden yellow mobile liquid at  $113^\circ\text{C}$ . The liquid changes at  $180^\circ\text{C}$  into a dark brown liquid that is very viscous. Heating at  $400^\circ\text{C}$  produces a brown less viscous liquid.

a) Draw the molecular structure of sulphur in the yellow liquid. (1mk)

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b) Name the allotropes of sulphur (2mks)

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21. A hydro carbon contains 80% Carbon, and its Relative Molecular Mass is 30. Calculate its molecular formula (C=12, H=1) (3mks)

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22. Describe a chemical test that can be used to distinguish between aqueous solutions of sodium carbonate and sodium hydrogen carbonate. (3mks)

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23. For each of the following experiments, give the observations and the type of change that occurs (*temporary physical or temporary chemical*).

Experiment	Observation	Type of change
A few drops of water are added to small amount of anhydrous copper (ii) sulphate		
A few crystals of iodine are heated gently in a test tube		

(b) In an experiment to determine the solubility of solid Q in water at  $50^{\circ}\text{C}$ , the following data was obtained.

Mass of empty evaporating dish = 46.5 g

Mass of evaporating dish + saturated solution = 62.5 g

Mass of evaporating dish + dry solid Q = 50.4 g

Use the data to calculate the solubility of solid Q.

(2mks)

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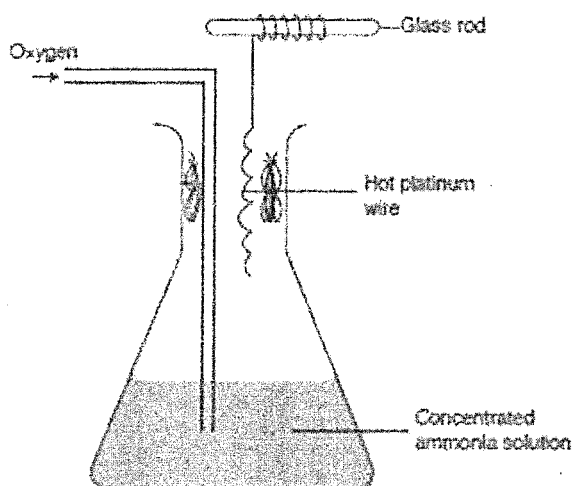
26. The rate of a reaction depends on the concentration of reactants, temperature, and possibly a catalyst. A piece of magnesium ribbon was added to  $100\text{cm}^3$  of 1M HCl. The hydrogen evolved was collected and its volume was measured after every 30 seconds. Draw a set up to represent this information. (3mks)

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4  
0

1  
4  
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24. The set-up below shows the catalytic oxidation of ammonia in the laboratory.



(a) State and explain the observation made. (2mks)

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(b) Write a chemical equation for the first reaction taking place in the conical flask. (1mk)

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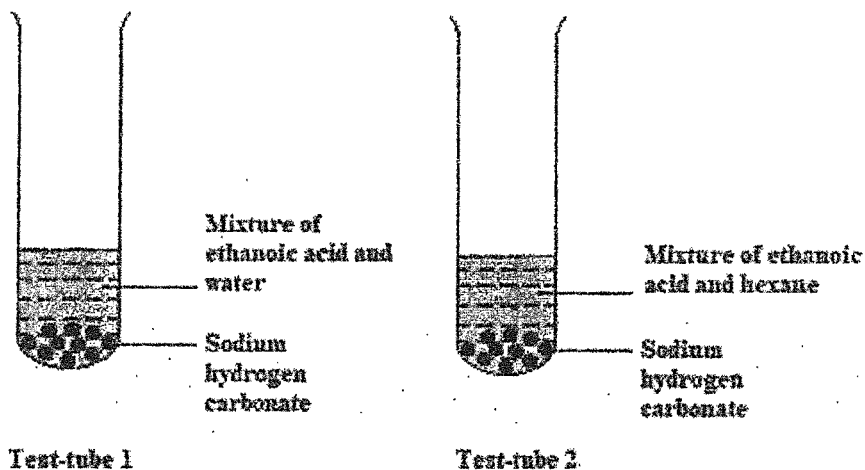
25.(a) Define the term solubility (1mk)

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27. In an experiment, a student put equal volumes of mixtures of ethanoic acid in water and ethanoic acid in hexane in two test tubes as shown below. In each test tube, equal amounts of solid sodium hydrogen carbonate were added.



(a) State the observation which was made in each test-tube I (1mk)

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Test Tube II

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(b) Explain the observations in (a) above (2mks)

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- 1.a) Explain **five** importance of entrepreneurship to an economy (10mks)  
 b) Explain FIVE sources of finance open to Kenya government. (10mks)

2.a) Highlight FIVE differences between a private limited company and public corporation (10mks)

b) Maendeleo Traders have the following information in their books of account on 31<sup>st</sup> December 2024.

	Kshs.
Stock (01/01/2024)	6,000
Sales	100,000
Return-in	2,000
Return-out	2,800
Carriage-in	1,000
Carriage-out	1,500
Purchases	88,000
Stock (31/12/2024)	4,000
Commission earned	3,500
Discount allowed	2,200
Sunday expenses	4,000
Discount received	4,400
Postage	800
Stationery	1,200

**REQUIRED**

- (i) Prepare a trading profit and loss account for Maendeleo Traders (8mks)  
 (ii) Calculate - Mark -up (1mk)  
 (iii) - ROSTO (1mk)

3 (a) Explain **five** negative effects of an increasing population. (10mks)

b) Use the demand and supply schedule given below to draw a diagram showing the following;

- (i) Demand and supply curves  
 (ii) Equilibrium quantity, equilibrium price and equilibrium point  
 (iii) Excess demand and excess supply

Price	Quantity demanded	Quantity supplied
450	10	70
400	20	60
350	30	50
250	40	40
150	50	30
50	60	20
10	70	10

(10mks)

- 4 a) Explain **five** ways in which central Bank of Kenya regulates the operations of commercial banks in Kenya. (10mks)
- b) A farmer in Kitale has maize to transport to Mombasa. He could either use road or railway transport. Explain to him **five** merits of using road instead of railway to transport the maize. (10mks)
- 5 a) Explain five reasons for government involvement in business activities. (10mks)
- b) Prepare a duly balanced three column cash book from the following information.
- Jan 1: Balance b/d cash shs.4,000 bank shs 27,000
- “ 4 Settled Olweny creditors account of shs. 8,000 by cheque having deducted 6% cash discount.
- “ 8: Received shs. 6000 cash from Mutoma traders
- “ 16: Deposited shs. 4,500 to the bank account
- “ 24: Withdrew shs. 9,200 from the bank for private use.
- “ 29: Received shs. 19,950 from Kawawa by a cheque after allowing 5% discount.
- “ 31: Banked all the cash leaving only sh 1,500 in the office. (10mks)
- 6 a) Explain **five** factors that influence decisions on what goods and services to Produce. (10mks)
- b) Explain **five** circumstances under which an insurance contract may be terminated. (10mks)

































































































































