

112/1
ENGLISH LANGUAGE
Paper 1
March / April
2 hours

STUDY SPHERE EXAMINATION BOARD

Uganda Certificate of Education

ENGLISH LANGUAGE

Paper 1

2 hours

INSTRUCTIONS TO CANDIDATES:

*This paper consists of **two** sections: **A** and **B**. It has **four** examination items.*

*Section **A** is **compulsory**.*

*Answer **one** item from Section **B**.*

*Answer **three** examination items in all.*

*Answers to Section **A** **must** be written in the spaces provided.*

*Answers to Section **B** **must** be written in the answer booklets provided.*

*Any additional items answered will **not** be scored.*

YOUR PARTNERS IN ACADEMIC EXCELLENCE

SECTION A

Item 1. *Read the text below.*

Environmental pollution has become a major global concern affecting countries across the world. In Uganda, the situation is no different, with the country grappling with various forms of pollution including air, water and soil pollution. The effects range from heavy rains to rising water levels and prolonged dry seasons. In severe cases, pollution results in loss of lives and property is damaged. This is currently happening in Uganda and worse is yet to come if action is not taken to protect the environment.

The media has been awash with news about floods and rising water levels in different parts of the country resulting from the heavy rains that have been rampant lately. On 24th April, 2023, one person died and three were reported missing after flooding from the overflowing Mukhoya River in Kasese district.

The Kyanzus and Nyamwamba rivers also broke their banks around this time, damaging homes and property in Mahango and Kyajuki. Uganda Red Cross reported that one person died and two were injured after a landslide in Bugheredero in Buhurira sub-county in Kasese district on May 1st 2023. In Mbale district, one person died and several homes were damaged after floods in Bushikor Parish on April 26th 2023. In addition to all this, transportation has been compromised, for example, the Kabale-Kisoro road was temporarily closed following serious cracks on the road at Hamurwa which had been caused by a landslide after a week of heavy rainfall.

The environmental impact of floods in Uganda is significant. Heavy rainfall and flooding contribute to soil erosion and loss of fertile top soil. This erosion can degrade agricultural lands and reduce their long-term productivity. Floods also contribute to deforestation as trees are uprooted or washed away, further worsening soil erosion and loss of biodiversity.

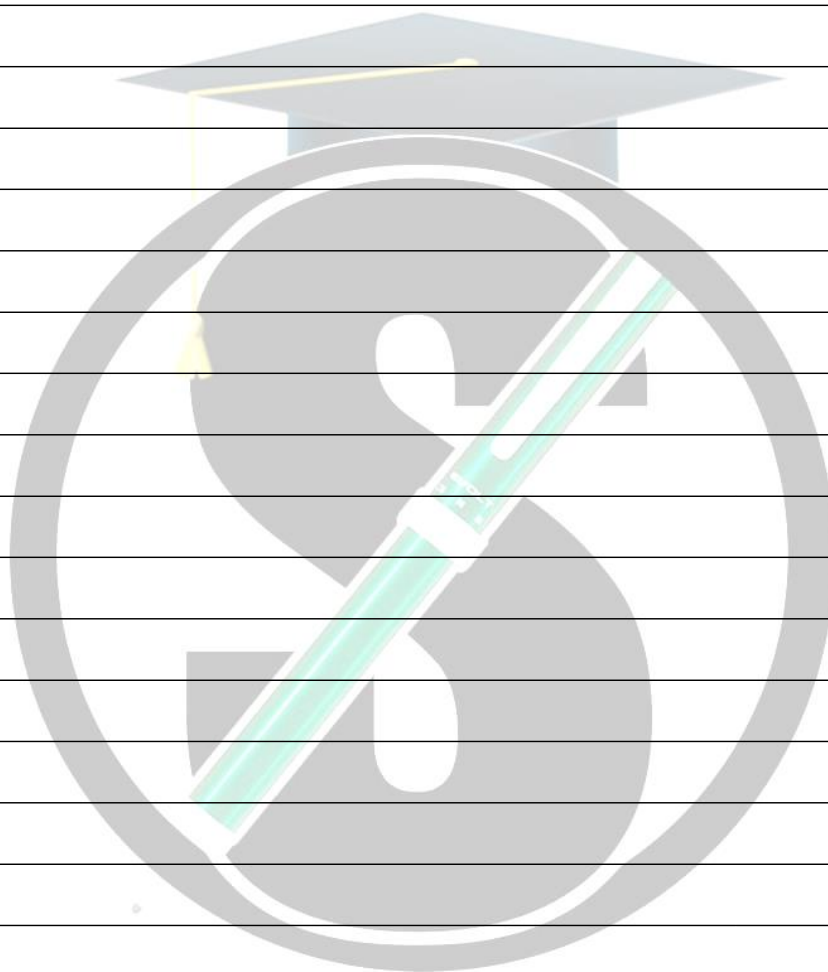
The flood waters often carry pollutants such as chemicals, sewerage and solid waste, contaminating water sources and posing a risk to public health. The increased sedimentation and pollution in rivers and lakes has adverse effects on aquatic ecosystems, leading to the decline of fish population and other aquatic species.

The loss of habitats and property has left many families without a place to sleep or a place to earn a living and sustain their families. This has forced them into an even worse situation. Other effects include educational disruption, spread of respiratory diseases like pneumonia, interrupted utilities and high insurance costs. As Ugandans, we should not be shocked if Mother Nature starts claiming what we have stolen from her. Therefore, as citizens, we demand the government and all relevant stakeholders to do the needful before the earth decides to take her own course of action.

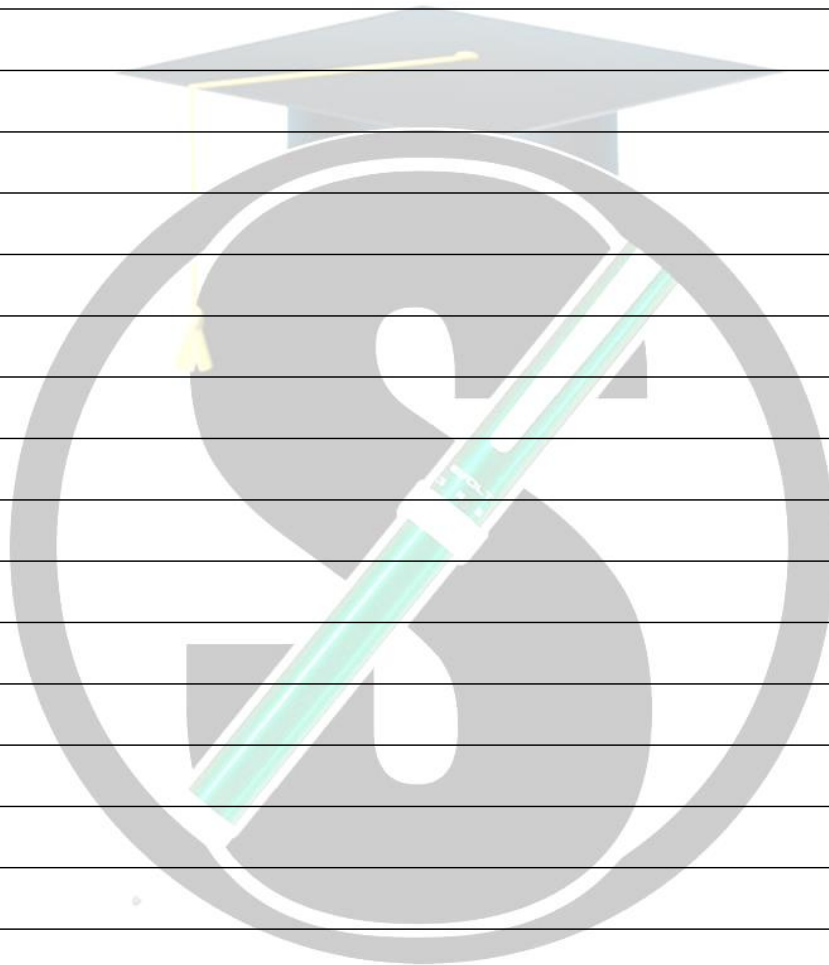
Adapted from: *The Daily Monitor* May 10, 2023.

Task: As the President of the Environmental Club at your school, write what you will share on the effects of environmental pollution with club members as shown in the passage. Use about **100** words.

ROUGH COPY



YOUR PARTNERS IN ACADEMIC EXCELLENCE

FAIR COPY

YOUR PARTNERS IN ACADEMIC EXCELLENCE

Item 2. *Read the text below.*

I still vividly recall my four years' experience in secondary school. It seems like yesterday. I had eagerly anticipated advancing to secondary level following my seven years of primary school. Being the first child in my family, there was a great deal of excitement surrounding my entrance into secondary school, and the preparations were well worth it. I could not believe that I was finally at a new level. I would dress elegantly in grey trousers and a white shirt with a striped blue tie, leaving many people in admiration and wondering how well I had ironed my shirt.

As teachers constantly advised, secondary school was actually the finest place for all students to showcase their academic abilities and of course, to get ready for the future. The teachers were constantly in good communication with us and were kind and encouraging. I liked every subject, but was particularly pleased with Kiswahili. I was inspired to learn that new language by the way the teacher taught it.

In my class, I made a lot of friends, but one stood out. Andrew was a tall, broad-shouldered boy with a dark complexion and large eyes. Although a few of my classmates were afraid of him, many were attracted to him for his tactful approaches.

Had I known him better, we would never have become friends. When I look back at how we became friends, my heart skips a beat. Sometimes he offered to buy me snacks from the school canteen, which left me wondering about his generous nature. We were in the same discussion group and continued to participate in other school activities together. However, Andrew appeared distant and uninterested in studies. He consistently disrespected teachers through his jokes, which would lead to punishments.

Our friendship kept growing. He showed me around his home, but I was hesitant to show him around mine since my parents were strict. We always returned home together because we lived in the same village and occasionally, on our way home, he would buy beverages for me. Upon inquiry about his source of income, he disclosed that he worked at construction sites during weekends. He added that he would soon launch a business and that he was working to pay for his own school fees. What an entrepreneur! That made me admire him even more. We grew closer the more we spoke to each other.

At the beginning of the first term of Senior Four, students were required to clear all school dues (two hundred and fifty thousand) for both school and registration fees for national examinations. Nobody would be registered without the payment. My father gave me all the money. Being such close friends, Andrew opened my bag and saw the money – two hundred and fifty thousand shillings.

"Are you going to pay the school fees?" he inquired.

"Yes," I replied.

He congratulated me and immediately proposed a business plan. He explained how I would benefit if I gave him the money to invest in a *Chapati* business for a week. Naive as I was, I handed him the cash in excitement and began to wait for profits. My friend did not come the following day. After three days, I

went to his home only to find it empty. I kept stopping by his house every morning and evening for a week hoping to find him.

The deadline for registration for the national examinations was getting closer, but Andrew was nowhere to be found. How could I have put my trust in this liar? How would I approach my father? He had supported me through school by working as a labourer. His sacrifice had been in vain!

Eventually I gathered courage and told my class teacher about what had happened. She paid close attention as I described my experience. She took me to the Head teacher, who after listening to the story, advised me to report the case to the nearest police station. The police took my statement and later revealed that Andrew was already in their custody. He had been arrested three days before together with other village boys. That notorious gang, to which Andrew belonged had been robbing the village. Andrew was that infamous gang member, who would break people's necks and strain their muscles. That revelation, completely stunned me and I concluded that not all that glitters is gold.

Respond to each of the following tasks about the text:

- (a) In life no man is an island. People meet in different places for different reasons and that's how relationships start and grow. Why did the storyteller give Andrew the school fees?

- (b) "Not all that glitters is gold." How does this proverb fit the message of the text?

- (c) The police officer revealed that Andrew had been arrested three days before. Write the actual words of the police officer.

YOUR PARTNERS IN ACADEMIC EXCELLENCE

- (d) One can understand a character by considering what the character says or does.

Referring to the story of the passage, explain what kind of person the storyteller is.

- (e) Our feelings about people are determined by what they do to us.
Referring to the passage above, describe your feelings towards Andrew.

- (f) You have a brother in Senior Two. He has always come home with different friends but there is one whose behaviour you are suspicious about. Use the story above to explain to him what you have learnt about some friends.

SECTION B

Either:

Item 3.

You are the chairperson of the Debate Club at your school. Your neighbouring school has always requested you to organise a friendly debate and you are finally organising one. Write to the Patron of the Debate Club of the neighbouring school. (Use 250 – 300 words.)

Or:

Item 4.

A student switched off lights during evening lessons. Your name was mentioned among the suspects. You were summoned to the disciplinary committee. Write your talk or chat with the chairperson disciplinary committee. (Use 250 – 300 words.)

Candidate's Name: Signature:

545/1

Biology

Paper 1

2 hours



STUDY SPHERE EXAMINATION BOARD

Uganda Certificate of Education

PRE-REGISTRATION EXAMINATION 2025

BIOLOGY

Paper 1

2 hours

INSTRUCTIONS:

1. This paper consists of two sections; A and B. it has six examination items.
2. Section A has three compulsory items.
3. Answer two item from section B.
4. Answer five items in all.
5. Answers to section A must be written in the spaces provided while those in section B must be written on the answer booklet(s) provided.
6. Any additional item(s) answered will not be scored.

FOREXAMINER'S USE ONLY			
SECTION	ITEM	SCORE(S)	EXAMINER'S SIGNATURE
A	1		
	2		
	3		
B	4		
	5		
	6		
TOTAL			

SECTION A (Attempt all the items)

Item 1

Mark is a student who had love mangoes. So, he decided to plant a mango tree at home. The tree developed and started providing fruits to Mark. However, the tree provided fruits at even the old age of the Mark.

Task;

- a. Explain how this discribe the difference in the development of the mango tree and the student.

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- b. How is the development of plants economically significance to the economic survival of man.

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Item 2

Peter joined a group of young boys who sniff petrol and smoke marijuna frequently. The group became known for crime, violence and causing chaos in the trading centre.

Peter and his group members were one day surrounded by police men who fired gun shots at them. This caused Peter's heart beat to increase suddenly and have ran very fast back to their home.

Task:

- a. What challenges do you think Peter may face if he continues to associate with such a group.

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- b. Describe how Peter's body coordinated and made him reach home.

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- c. Explain how Peter can avoid challenges associated with being in such groups.

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Item 3

Grace a 19-years old girl living in the hilly areas of mount.Rwenzori in Kasese, became pregnant by a man from her home village. Due to the staying in the the hilly area, she failed to access antenatal care. After birth of the baby, the man refused to provide parental support, claiming

that the baby's skin and hair appearance was unlike any in his family lineage. Distressed, Grace consulted a doctor who explained that the baby's appearance was due to a genetic disease.



Figure 1.1 shows Grace and her child

Task:

- a. Identify the genetic disorder and show how it was genetically passed on the baby.

[illegible]

- b. Explain the dangers of the lifestyle experienced by Grace before giving birth.

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- c. State the risks associated with the situation Grace encountered at her age.

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SECTION B (Attempt two items from this section)

Item 4

In a village in western Uganda, Swamps have been cleared for cattle farmlands and sand mining. The area environmental officer organised a radio talk show on sustainable resources in swamps. Unfortunately, Doreen a resident of the area only heard the concluding statement, *"From the presentaion, I kindly request every body to use our natural resources sustainably"*

Task:

Explain to Doreen the problem being addressed by the environment officer and how they can be solved. Explain why the village should conserve the natural resources in the swamps.

Item 5

Ayebale, a good sports lady, and her husband who is a smoker, live near a swampy area. As time went on, she developed poor appetite and was found to be HIV positive, having heart and respiratory diseases and frequently suffers from malaria. Ayebale observed that her level of performance had greatly declined and she could not understand the cause.

Task:

- Explain why Ayebale's level of performance in sports had declined.
- Advise Ayebale on how she can manage her health condition.

Item 6

Jackson, whose mother has hepatitis B was involved in a moto accident. He hit his head. Lost a lot of blood and became unconscious. He was rushed to the nearby hospital where they found that he is of blood group AB. The doctor advised that Jackson should undergo blood transfusion in addition to other medication.

the hospital did not have blood but Jackson's relative with safe blood were willing to donate blood to save his life. However, they were confused as to who of them could donate blood. The table below shows the blood groups of Jackson's relative available.

Relative of Jackson	Blood group
Cousin	A
Mother	B
Sister	AB
brother	O

Task:

- Explain how the accident affected the functioning of Jackson's body
- Without referring Jackson to another hospital, suggest with reasons. Which of the relative(s) could donate blood to Jackson.

THE END

"Your Partners In Academic Excellence"

[Tel:0782353092](tel:0782353092) / 0788381260

Candidate's Name: Signature:

223/1

Entrepreneurship

Paper 1

March / April 2025

2 hours



STUDY SPHERE EXAMINATION BOARD

Uganda Certificate of Education

PRE – REGISTRATION EXAMINATION 2025

Entrepreneurship Education

Paper one

2 hours

Instructions to candidates:

1. This paper consists of two sections; A and B. it has six examination items.
2. Section A has **three compulsory** items.
3. Answer **one items** from section B.
4. Answer **four items** in all.
5. Answers must be written on the answer booklet(s) provided.
6. Any additional item(s) answered **will not** be scored.

SECTION A: (attempt all the question)

Item 1

Mr. Karim after teaching for so many years at ABC High school, he decided to open up a bakery using the little savings he had generated from the teaching profession. The bakery was dealing in the making of bread, cakes, daddies and a wide variety of bakery products.

Task:

In a few sentences, describe the type of business which mr.Karim was operating. (10 marks)

What do you think are the advantages of operating such a form of business? (10 marks)

Item 2

Mark is a s.4 vaccist who lives in Kagadi district. He is in is vacation he has tried to look for jobs to do but has been unsuccessful. He recently thought of the idea of starting a business in order to earn some income. He then approached his parents to request for some support and resources. His parents offered him a room to locate his business and cash shs 5,000,000 in form of a loan which he will pay back when the business breaks even. Mark who is not certain of what to do and which business to undertake approached you as one of his trusted friends to seek for advise.

Task:

As an Entrepreneurship Education Learner Guide Mark to;

- a) Identify a suitable and profitable type of business.
- b) Formalize his business.
- c) Assess the risks that may be involved in his business.

Item 3

Elizabeth is business woman in kyakabadima and she owns a restaurant in the town. She has operated this business for five years now but the progress has been small, she has failed to make enough profits. One the reasons is that she hardly markets her business products, sells poor quality food, doesn't have enough customer care and poorly handles her business cash. Elizabeth also has tax arrears.

Task

- a) Explain to Elizabeth the benefits of carrying out marketing in business.
- b) Which business ethics does Elizabeth need to exhibit in order to attract more customers in her business?

YOUR PARTNERS IN ACADEMIC EXCELLENCE

SECTION B

(Attempt only one item from this section)

Item 4

Alex a wholesaler in Kumi municipality had the following transactions for the month of march 2021.

<i>Date</i>	<i>Transactions</i>	<i>Amount</i>
March 1 st	Started business with cash	100,000shs.
2 nd	Bought goods in cash.	40,000shs.
	Deposited money into the bank.	20,000shs.
	Paid transport by cash.	150,000shs
	Sold goods by cash.	35,000shs.
	Paid water by cash.	15,000shs.
	Bought goods from Rita	50,000shs.
	Returned goods to Rita	20,000shs.
	Received cash from Betty.	80,000shs.
	Paid Stella in cash.	30,000shhs.
	Promised to pay Asio.	20,000shs.
	Cleared for electricity in cash.	10,000shs.
	Ariko paid us cash.	150,000shs.
	Cash sales.	100,000shs.
	Withdrew cash for personal use.	5,000shs.
	Paid for transport by cash.	2,000shs.

Task

Prepare for Alex a cash account and balance it off

Item 5

In May 2024, Jasper's cashier left for another job before preparing the financial statements for the business. The cashier left the details obtained from the ledger balances of the supermarket for the year ending 31st December 2024 as follows;

Items	Amount shs.
Capital	6,850,000
Sales	5,200,000
Purchases	3,800,000
Cash at hand	5,720,000
Furniture	600,000
Discount received	400,000
Refrigerator	1,200,000
Creditors	870,000
Repairs for refrigerators	320,000
Drawings	1,100,000
Electricity	1,440,000
Salaries and wages	1,800,000
Stock of food items (31/12/2020)	720,000
Bank loans	2,660,000

However, Jasper is too busy to complete the process.

Task

- a)** Check the arithmetic accuracy of the ledger balances.
- b)** Determine the profit or loss made by the business

*** THE END***

Candidate's Name: Signature:

241/1

History

Paper 1

2 hours



STUDY SPHERE EXAMINATION BOARD

Uganda Certificate of Education

PRE-REGISTRATION EXAMINATION 2025

HISTORY

Paper 1

2 hours

INSTRUCTIONS:

1. This paper consists of two sections; A and B. it has four examination items.
2. Section A has two **compulsory** items.
3. Answer **one** item from section B.
4. Answer **three** items in all.
5. Answers must be written on the answer booklet(s) provided.
6. Any additional item(s) answered **will not** be scored.

SECTION A (attempt all the items)

Item 1

The 2020-2021 COVID-19 pandemic was challenge to everyone. Ugandans were under curfew, the business and people lost their jobs but the general elections had to go on as planned. Despite the international SOPs (standard operating procedure) put in place by the world health organization, Uganda as a country defied them and participated in the electoral process. Most citizens did not respect SOPs and the security forces were forced to use maximum force to enforce the regulations and stop some rallies of candidates. To most people this was interpreted as violating their rights and condemned the action of police and government as favoring some candidates

TASK

- Amidst the challenges of COVID-19 explain whether it was necessary to carry out the general elections in Uganda.
- Explain how the principles of democracy were affected by the 2021 general elections in Uganda.
- As a student of history and political education give reasons why Uganda had to continue with national elections despite of WHO rules and regulations.

Item 2

Cross cultural marriages in Uganda are becoming more common than ever before. Your brother married a lady from an ethnic community which is quite different from yours and therefore has half cast children. During holidays, you stay in your brethren's house, interact with his wife and children. Your brothers together with his wife and your parents have tasked you to develop strong cultural values in those children.

Task

Identify your ethnic group and that of your brother's wife and explain the steps you will follow to develop cultural values in those children

SECTION B (attempt only one item from this section)

Item 3

It is an election period, and the people in your sub county are encouraging you to contest as their representative to the local council V (LC V). You met with other contestants in the local council in other sub- counties and agreed that when you win the election, they will support your interest to become the Speaker of the District Council. They in turn, have requested you to influence the District Chairperson, to appoint them on committees of Finance, Education, Health and Social Services.

Task

Explain your plan for the District if elected to the position of the District Speaker.

Item 4

Our teacher of history and political education, Mr. Wambele claims that patriotism is made up of four components namely; a special affection for one's country, defining one's self through their country, being interested in the country's welfare and making a sacrifice for the sake of the country. According to whoever does that qualifies to be regarded as a patriot.

Task.

- Suggest ways through which you can promote patriotism among the members of your community.
- Show the benefits of patriotism to a country like Uganda.
- Explain the reasons why patriotism needs to be regulated and checked.

THE END

Candidate's Name: Signature:

480/1

**Information and Communication
Technology**

Paper 1

March / April 2025

2 hours



STUDY SPHERE EXAMINATION BOARD

Uganda Certificate of Education

PRE – REGISTRATION EXAMINATION 2025

Information and communication Technology

Paper one

2 hours

Instructions to candidates:

This paper consists of two sections; **A** and **B**. It has five examination items.

Section **A** has one **compulsory** item.

Section **B** has two parts; **I** and **II**.

Answer one item from each part.

Answer **three** examination items in all.

Any additional item(s) answered **will not** be scored.

All answers must be written in the answer booklet(s) provided.

SECTION A (Compulsory)**Item 1**

The head teacher of ABC High school is planning to organize an assembly to sensitize 500 students about the school rules and regulation. The students will be required to assemble in the school main wall. The head teacher would like to have a visual presentation of his speech and also give a copy of the rules and regulations to each student.

The head teacher's secretary, who is your brother, has been tasked to prepare whatever the head teacher will need to have a successful assembly, but has no idea of the appropriate ICTs that be used to and how they are used.

Your brother has approached you for help.

Task:

Explain to you brother the ICTs he can use and how to use them to ensure that the head teacher has a successful assembly.

SECTION B**Part 1****Item 2**

Due to a recent rise in cases of malaria, your school has been chosen to provide information to help prevent the spread of the disease. You have been asked to research and compile information on malaria, including causes, symptoms, prevention, and treatment options.

Tasks:

- a) Describe how you would search for information on malaria, organize it, and share it with community members using ICT tools.
- b) List the precautions you would take to ensure safe and respectful internet use when gathering and sharing information.

Item 3

A primary school in your district has been using outdated computers for years. Recently, some of the machines have stopped functioning, and the school administration has decided to replace them. The school plans to discard the old computers but is unaware of proper e-waste disposal methods. They are also concerned about the security of student data stored on the old computers.

Task:

- (a) Advise the school on secure methods to erase all sensitive student data from the old computers before disposal.
- (b) Provide guidelines for environmentally safe disposal of electronic waste.

Item 3

The government of Uganda through the Rural Communications Development fund (RCDF) has been setting up computer centers in various rural areas in Uganda. These centers provide internet services, computer maintenance and repair services and computer literacy trainings among others. The users of these services include community farmers searching for markets, teachers searching for teaching materials and graduates searching for jobs. Being villagers most of them are excited about the internet and the whole technology at large to an extent of using the internet and the computers for long hours.

You have been selected by (RCDF) to sensitize these people about the health and safety risks of prolonged use of computers



Task:

Prepare a sensitization presentation which you will deliver

Part 2

Item 4

A small NGO has decided to launch a new online platform to share research reports and community outreach information with the public. The team is unfamiliar with file and folder organization, and their current method of storing research files on shared drives has resulted in frequent loss and duplication of important documents. They also need a well-designed website to publish their reports online.



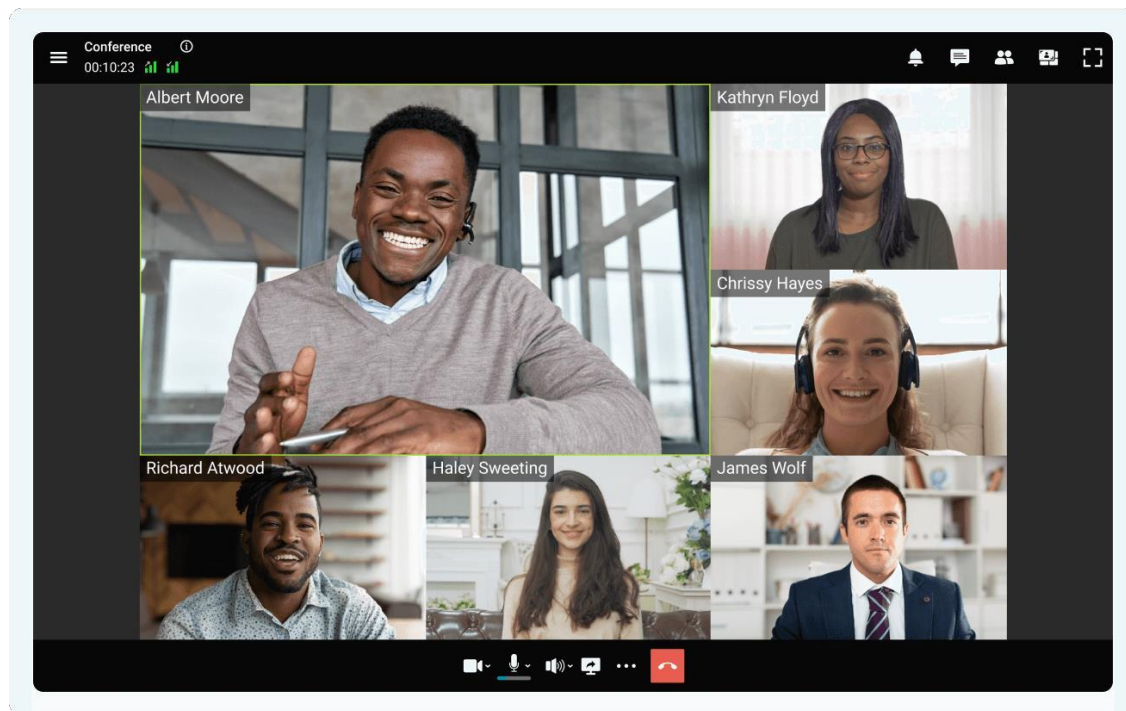
Task:

Develop a detailed plan for the NGO to implement an effective file and folder management system. Additionally, suggest how they can create a website to publish their research and reports for public access.

Item 5

The village members of Kibanyi village face several health challenges ranging from famine brought by drought, poor water sources, thieves stealing their cows, and of recent they were attacked by red eyes. On the same village, one senior citizen Mr. Jjombwe Lawrence educated his son using the money he earned from selling coffee and by God's Grace his son landed on a juicy job in the United States of America. Mr. Jjombwe's son heard the sad news of suffering of his village people including his real family members. He has the potential to bail his village out of this but unfortunately none of the village men and women can use the ICT tools and the internet at large to communicate with him properly

The chairperson of Kibanyi village approaches you to guide them on how they can effectively use available ICT tools and the recent social media platforms to communicate with their son in the United States of America.



Task:

Provide a presentation/write up about the devices/tools required to make an effective communication with their rich son in the USA.

THE END

P535/1

Physics Paper 1

(Theory)

April/May 2025

2 ½ Hours



STUDY SPHERE EXAMINATION BOARD

UGANDA LOWER SECONDARY CERTIFICATE OF EDUCATION

PRE – REGISTRATION EXAMINATION 2025

PHYSICS

PAPER 1 (THEORY)

SENIOR FOUR

2 ½ HOURS

Instructions to students:

1. This paper consists of seven (7) scenario-based items carrying equal marks with two sections A and B.
2. Section A consists of only three (3) compulsory items.
3. Section B also has two parts part 1 & 2 each part consisting of two items. You are requested to attempt **only one** item from each part in this section
4. Silent non-programmable scientific calculators may be used.
5. At the end of the examination, fasten all your work securely together.

Where necessary, assume; Acceleration due to gravity, $g = 10 \text{ ms}^{-2}$ Density of water = 1000 kgm^{-3} Specific heat capacity of water = $4200 \text{ Jkg}^{-1}\text{K}^{-1}$ Speed of light in vacuum, $C = 3.0 \times 10^8 \text{ ms}^{-1}$



SECTION A (attempt all the item)

Item 1

During a thunderstorm, a farmer's cow that was sheltering under a tall tree was struck by lightning and it fell dead. The community attributed this incidence to witchcraft.

Task:

As a student of Physics, use science to explain this incident to the community

Item 2

Kilembe farmer's association in Kasese district deals in vegetable growing near R. Nyamwamba for their livelihood. The natives near the river bank have been complaining of health complications that drew the attention of the government under the ministry of health. The ministry of Health sent a nuclear Physicist, Dr. Fredrick to make a survey on the occurring problem in Kasese. Dr. Fredrick later surveyed and wrote a report to the Ministry of health on the main cause of the issues in Kasese. In the report, it was reported that the vegetables contained radioactive materials that emit radiations to the grown vegetables coming from water and this was not known to the natives near the river bank.

Task: As a physic learner;

- i) In the reports, terms such as **radioactivity** and **radioactive decay** were reported. Help the natives to understand these terms.
- ii) Guide the natives at the river bank using reaction equations to understand the types of radiative decays that their vegetables have been prone to.
- iii) Advise the natives about the dangers of these radiations and the safety precautions they should take to take against the emitted radiations.

Item 3

The solar system is composed of big, small and much smaller objects including planets. All planets move around the sun in elliptical paths. The motion is both rotational and revolution. Rotation motion involves the planets spinning about a fixed axis and revolution motion involves planet moving around the sun.



Task:

- i) Identify the other components of the solar system.
- ii) Which name is given to the path in which planets move.
- iii) Draw diagrams to show rotational motion and revolution motion.

SECTION B(attempt one item from each part)**Part 1****Item 4**

One of the most misunderstood branches of physics for years has been space physics (Astronomy). Some of the examples of such misunderstandings include the following.

- While watching the world cup which took place in Brazil in 2014 at 9:00 pm East African time, the football fans watching the game in E. Africa realized that it was still day time in Brazil, some of them were puzzled by this.
- The NASA (National Aeronautic and Spaced Administration) tells us that the only planet that supports life is earth.

Task:

How can you explain the above statement in **case one** to your classmates, siblings or friends about the astronomical events in order to promote deeper understanding of physics in the school and community at large.



Item 5

In a certain town, it is a must for drivers to be tested with their vehicles for road-worthiness. On a certain day, a car started from rest and accelerated to 50 ms^{-1} in 10 seconds. The driver maintained that velocity for 20 seconds and suddenly decelerated to rest in 2 seconds causing him to crush into windscreen. As a result, the car tyres wore out on the tarmac causing a lot of heat on the ground.

Task:

You have been tasked to write a report to explain the scene. In your report include a motion graph, Find the rate at which the car's velocity reduces and explain why driver crushed into the wind screen. Advise by stating whether the drivers average speed exceeded the speed limit of 8 ms^{-1} and how he would prevent the crushing

Part 2

Item 6

Challenges arise in a community of an isolated district in Uganda. Mixed beliefs, anxiety, mistrust and poverty have cropped up. Rainbows happening to some places when it rains and illusionary water pools on sunny days on road surfaces have been attributed to area clergy and witch-doctors. Furthermore, there is change in color where different objects when placed in the night security lights of one of the residents, who is believed to have miraculous powers of God. A lot of money is being spent by residents to get miracles to avoid misfortunes and evil spirits from spiritual people.



Task:

Prepare a speech you would give in the upcoming community gathering to address this challenge.

Item 7

During preparation for the function or party at your school, two decorators disagreed on the right position to hang the balloons. One preferred the balloons to be placed in direct sunshine. However, the other insisted that they should be inside the tent.

Task

As a Physics Learner, write an advisory message, with reasons, indicating the place where the balloons should be placed.

THE END

YOUR PARTNERS IN ACADEMIC EXCELLENCE



527/1
AGRICULTURE
Paper 1
2024
2 hrs:30mins

STUDY SPHERE EXAMINATION BOARD

Uganda Certificate of Education

PRE-REGISTRATION EXAMINATION 2025

AGRICULTURE

Paper 1

2HOURS: 30 MINUTES

INSTRUCTIONS TO CANDIDATES:

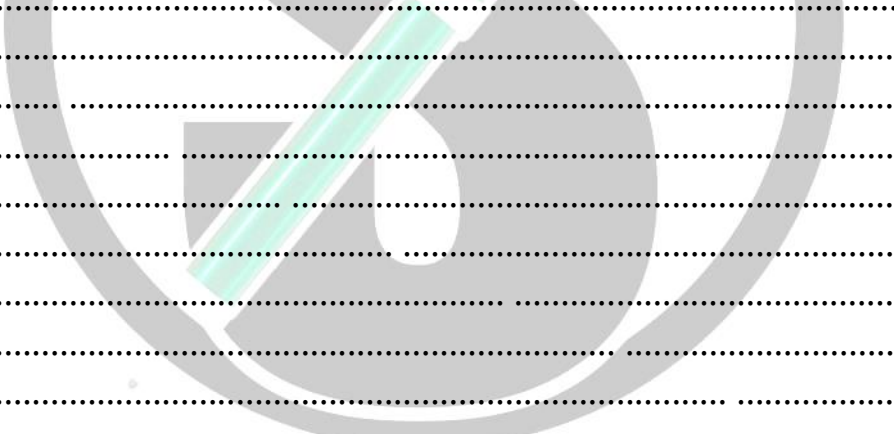
- This paper consists of **six** examination items. It has **two** sections A and B.
- Section A has **two** compulsory items.
- Section B has **two** parts; I and II. Answer **one** item from each part.
- Answer **four** examination items in all.

YOUR PARTNERS IN ACADEMIC EXCELLENCE

SOIL SCIENCE AND VALUE ADDITION

Item 1.

TASK



YOUR PARTNERS IN ACADEMIC EXCELLENCE

b) Kanyere a farmer in Kisozi Sub County in Uganda was advised to start a dairy

TASK

.....YOUR PARTNERS IN ACADEMIC EXCELLENCE.....

As a result of the increased demand of vegetables in your community, you decided to venture into vegetable growing. However, some areas of your community are rocky with shallow soils while other areas are gently sloping with deep, well drained and fairly fertile soil. Due to those differences, the seedlings that were raised in the nursery came out bent, small sized and some were diseased. This led to poor quality and low yields realized by these learners.

Suggest the improvements you should do to ensure profitable vegetable production.



YOUR PARTNERS IN ACADEMIC EXCELLENCE

SECTION B

This section has **two** parts; I and II

PART I: ANIMAL PRODUCTION

Answer **one** item from this part.

Item 3.

Mr. Kagoda is a poultry farmer producing both eggs and meat on a large scale. Recently he got a new farm manager and instructed him to establish a poultry breeding unit using the parent stock he has to produce chicks for sale. However, the farm manager was not getting the expected number of chicks from the hatchery. The farm is located in an area with many other poultry farmers and there is free movement of chicken from one farm to another. Birds from the neighboring farms were observed with cough, blood-stained faeces, mucus discharge and scratch marks on their bodies. Operation Wealth Creation has provided tools and equipment to livestock farmers in the community especially for disease and parasite management.

TASK

Write guidelines to help the farm manager meet Mr. Kagoda's requirement.

Item 4.

Bizimana, an agricultural extension officer from Kabanyolo Agricultural Research Institute visited Karungi's farm and in his report, he indicated that the roof of a calf pen was blown off and the walls were full height. Also, the cows were bonny and their dung contained worms. The adult animals could hardly find what to eat and were grazing on woody natural pastures. The only source of water had snail shells, algae and dung. The lactating cows had cracks on their teats. Hair-like substances were seen in the milk which was filtered using an old cloth. The farm owner uses a basin for mixing the acaricide.

TASK

Basing on the report from Mr. Bizimana, how can the farm owner improve on the

productivity of his livestock farm?

PART II: CROP PRODUCTION

Answer **one** item from this part.

Item 5.

The maize farmers in Uganda experienced low yields in 2021. This was generally attributed to the changing weather patterns, the up surge of pests and disease attacks, the poor-quality seed used, poor soils and the poor post-harvest handling methods employed. The demand for the grains became eminent and this translated into increase in the price to shs. 2,000/= per kg from shs. 1200/= per kg in various markets of Arua City. Trucks bearing labels of different schools were seen packing at various market lanes as the loaders kept filling the trucks with sacks of maize grains and posho. The high prices of maize at this time caused a lot of pain to the farmers whose yields had been lowered in the previous season and they were discouraged from venturing into maize growing ever again. In addition, farmers who had plenty of maize in stores, started witnessing changes in color of the grains; bad smell through rotting as a result of attack by bacteria and fungi.

TASK

You are the quality assurance officer in Arua City. Write a newsletter that will benefit the farmers and improve on the maize production in Arua City.

Item 6.

A vegetable farmer decided to grow a hectare of tomatoes. He set up a nursery bed in a free draining area near a water source. After preparing the nursery, he broadcast the seeds, covered them well with soil and watered the bed. The seeds germinated well and seedlings covered the entire soil surface. He maintained all the seedlings up to the time of transplanting. Transplanting began at twelve noon on a sunny day as the farmer had to attend a meeting at 2.00 pm the same day. After a week, some empty spaces were noticed within the crop rows. The plants which survived had many branches and leaves. When the farmer inspected his garden before the crops reached maturity, he observed dark brown patches on the

leave fruits. At a later stage, holes were also observed on some bigger fruits. At harvest, farm workers picked the fully ripe red fruits, packed and sealed them in plastic bags. The packed fruits were to be delivered to the market in a week's times.

TASK

Write a message to the vegetable farmer advising him on how he should carry out tomato production efficiently.

*****THE END*****



Candidate's Name: Signature:

545/1

Chemistry

Paper 1

2 hours



STUDY SPHERE EXAMINATION BOARD

Uganda Certificate of Education

CHEMISTRY

Paper 1

2 hours

INSTRUCTIONS:

1. This paper consists of two sections; A and B. it has six examination items.
2. Section A has two compulsory items.
3. Section B has two parts; I and II. Answer one item from each part.
4. Answer four items in all.
5. Answers to section A must be written in the spaces provided while those in section B must be written on the answer booklet(s) provided.
6. Any additional item(s) answered will not be scored.

FOR EXAMINER'S USE ONLY			
SECTION	ITEM	SCORE(S)	EXAMINER'S SIGNATURE
A	1		
	2		
	3		
B	4		
	5		
	6		
TOTAL			

SECTION A

Answer all the items in this section in the space provided.

Item 1

Mr. Karim, is a citizen of Kampala who has just completed the construction of his residence house. When he was talking with his friends he explained that 'he used different building materials of different quality and properties.

Task:

Using your knowledge of chemistry explain:

- i. The categories of materials he used in construction,

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- ii. The suitability of the materials used in construction.

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- iii. The choice of the material used in construction.

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- iv. Explain the challenges associated with the materials used in construction.

[illegible]

Item 2

Peter, living in an area where they used bore hole water, slid, fell and his white shirt became dirty. He decided to use a white bar soap to clean his shirt. The shirt remained with some brown spots yet he had rinsed it several times.

Task:

As a student of chemistry:

- a. Point out the problem Peter made when cleaning choosing a product.

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- b. Help Peter understand how the product works.

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- c. Advice Peter on the challenges associated with the long time use of the product.

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SECTION B

Attempt one item from each part

Part I

Item 3

In a public address by the President, he expressed his happiness after the discovery of magnetite in one of the districts. However his worry is there has been not yet a course at the university on how to extract the metal from its ore. You have been appointed to lead a team that will extract the ore as well the metal.

Task:

Record down your presentation.

Item 4

Kyakabugahya village is one of the ignorant areas in Kagadi district; it has been facing problems of Rusting the past seven months. In research on how to combat the problem of rusting, the residents suggested the use of electroplating to overcome rusting, confusion has arisen since the villagers are ignorant and do not know how to use the method.

Task:

Write a well explained solution to the village's problem given that that land surveyors' discovered copper (II) sulphate in the village.

Part II

Item 5

Ssekitoleko is a student of ABCD high school; he collects plastic materials, charcoal dust, animal droppings and plant materials to make charcoal briquettes that he sells for income. He also sells the collected plastic bottles and bags to the recycling industries from which he also gets income for survival.

Task:

- a. Help Ssekitoleko know how important he is to the environment.
- b. As an official from NEMA, write brief notes to be presented to the public village meeting including other ways of protecting the environment from the harmful effects of polymers.

Item 6

Charcoal burning and selling is one of the a thriving business that many people have joined today because of the rich forest cover present in the homeland areas.

However, it is well known that cutting down trees for charcoal burning is a bad practice; people sell charcoal at good prices and have supported their families from the profits obtained.

Task:

As a student of chemistry, prepare a report to share with the people in the community about other carbon-based fuels they can resort to other than charcoal. In your report also talk about the dangers of deforestation.

END

Candidates' Name: Signature:

336/1

KISWAHILI

Karatasi Ya Kwanza

March / April 2025

Saa Mbili

STUDY SPHERE EXAMINATION BOARD
“Your Partners in Academic Excellence”

Uganda Certificate Of Education

Karatasi Ya Kwanza

Saa Mbili

MAAGIZO KWA WATAHINIWA

Karatasi hii ina sehemu mbili A na B

Jibu mswali mawili kwa ujumla

Katika sehemu A kuna maswali mawili. Chagua swali moja

Sehemu B ni ya lazima

Majibu yote yaandikwe kwenye karatasi uliyopewa

Swali la ziada halitasahihishwa

YOUR PARTNERS IN ACADEMIC EXCELLENCE

SEHEMU A UTUNZI

WA INSHA AMA

1. Uzalendo ni hali ya mtu kuipenda nchi yake kutoka moyoni mwake. Uzalendo ni muhimu sana katika maendeleo ya jamii/nchi. Binadamu kuitwa mzalend, anastahili kuonyesha vitendo vya uzalendo. Rafiki yako anasomea katika shule ya upili ya Vision wilayani Kisoro. Sheuleni kwao hawaelewi vizuri mambo ya uzalendo. Rafiki yako huyo anaitwa Rhoda. Mwandikie barua ukimwelezea juuya suala hili. (Alama 40)

AU

2. Kila mtu anaishi nyumbani. Nyumbani kunaishi watu wengi wa ukoo kama Vila; Mama, mama, dada, kaka, shangazi na mjomba. Watu hawa wote, wana majukumu katika familia. Bila watu hawa, familia haiwezi kuendelea vizuri. Andika insha ukielezea watu hao na majukumu yao. (Alama 40)

SEHEMU B

UFUPISHO

3. Kwa maneno kati ya 65-70 fupisha habari hii Kwa kutoa umuhimu wa Benki. (Alama 20)

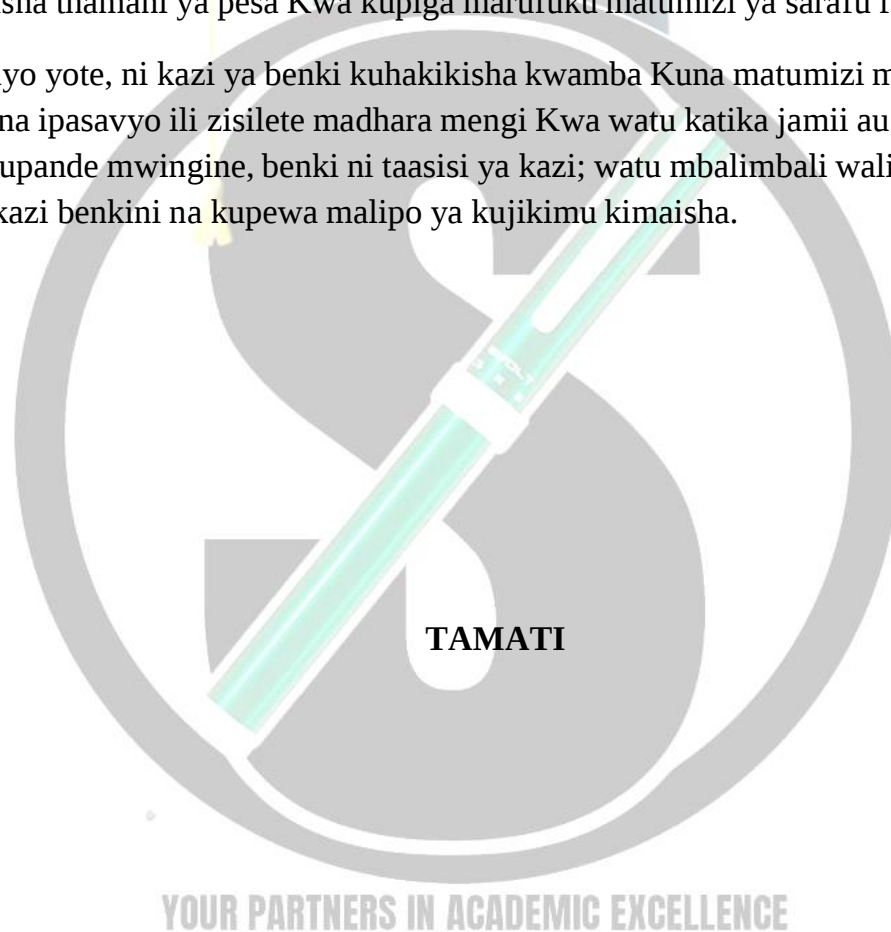
HUDUMA ZA BENKI

Benki ni shirika la fedha linalohifadhi na kukopesha pesa. Benki huwa na Wafanyakazi wa kuihudumia ambao walisoma wakafuzu kozi za biashara pamoja na uhasibu. Hii ni kwa sababu shughuli za pesa zinahitaji utaalamu wa utekelezaji. Benki inasaidia kuhifadhi pesa kama vile; mishahara ya watu, pesa za serikali za serikali za shughuli mbalimbali, pesa za watu binafsi, pesa za makampuni au mashirika mbalimbali na kadhalika. Jambo lingine, Benki inasaidia watu kwa kuwalipa mikopo ambayo inasaidia

kijiendeleza pamoja na kuendeleza shughuli zao nyingine. Kwa mfano mtu anaweza kupata mkopo kutoka benki na kuanzisha biashara ya mifugo, nakadhalika.

Pia, Benki ni ya muhimu kwa sababu inasaidia watu wanaohifadhi pesa zao benkini kwa kuwawekea riba. Ikumbukwe kwamba benki inasaidia watu kwabadilishia pesa yaani kubadilisha sarafuya aina Moja hadi aina nyingine. Kwa mfano mtu anaweza kuwa na pauni halafu azipeleke benkini wabadilishie, apate shilingi. Zaidi ya hayo, benki zinasaidia watu kwa kuwawekea pesazilizopotea thamani hasa ikiwa serikali imebadilisha thamani ya pesa Kwa kupiga marufuku matumizi ya sarafu fulani.

Juu ya hayo yote, ni kazi ya benki kuhakikisha kwamba Kuna matumizi mazuri ya pesa kwa namna ipasavyo ili zisilete madhara mengi Kwa watu katika jamii au nchi yoyote Ile. Kwa upande mwingine, benki ni taasisi ya kazi; watu mbalimbali waliofuzu huajiriwa kufanya kazi benkini na kupewa malipo ya kujikimu kimaisha.



STUDY SPHERE EXAMINATION BOARD
PRE-REGISTRATION EXAMINATION 2025
FINE ART S.4

Time: 2Hours & 40 Minutes

INSTRUCTIONS:

- *This paper consists of **four items**.*
- *Attempt **all** the four items.*
- *Use of illustrations will earn you more scores*

Item 1

Many schools do art projects in Uganda. In our school we still have a challenge of lack of skills to promote art projects and we have resorted to getting ideas from master artists. There is a need to equip our learners from our school with skills of fabric designs.

Task

As a learner of S.4 you have learnt some skills to meet the need. Motif development (steps) is needed sketches are required for motif development process and how important is fabric decoration to the community.

Item 2

The influence of the Greek and Roman art has led to contemporary art in Uganda (the art of today, modernism in art). There are many factors attributing to this modernization which has made the Ugandan economy grow steadily, for example improved technology and change of needs in our communities.

Task

Write a report explaining the ways in which Ugandan art has turned from traditional to contemporary art, prepare a presentation to explain how contemporary art has contributed to the growth economy of Uganda.

Item 3

As an artist of S.4 working independently to meet the need of producing a motif for printing. The motif will be used to print on a fabric as a final product.

Task

Using your skills, knowledge and understanding present the process (steps) of creating a motif and the purpose of the print made on a fabric.

Item 4

The president of Uganda is planning to start his campaigns for his next term in leadership. There is need for artists to join their heads together to produce posters for president's campaign.

Task

If you are selected to be one of the artists to help in the presidents need, what are the qualities that the poster needs to have, the features and how important are those posters in president's campaign.

THE END

YOUR PARTNERS IN ACADEMIC EXCELLENCE

Candidate's Name: Signature:

223/1

Christian Religious Education

Paper 1

March / April 2025

2 hours



STUDY SPHERE EXAMINATION BOARD

Uganda Certificate of Education

PRE – REGISTRATION EXAMINATION 2025

Christian Religious Education

Paper one

2 hours

Instructions to candidates:

1. This paper consists of two sections; A and B. it has six examination items.
2. Section A has two **compulsory** items.
3. Answer **two items** from section B.
4. Answer **four items** in all.
5. Answers must be written on the answer booklet(s) provided.
6. Any additional item(s) answered **will not** be scored.

SECTION A: (attempt all the question)

Item 1

Mark is a student at ABC High School. He is well known for his active participation in school activities and chapel services. He is committed to his studies and regularly attends chapel activities, showing dedication to his faith. However when he faces academic challenges or personal hardships, he neglects his school responsibilities and chapel activities, turning instead to fortune tellers and medicine men for quick solutions.

Task:

Using Christian views, explain how this scenario informs students about the importance of remaining faithful to God.

Item 2

Your friend Gloria, who is 16 years old, just finished her senior four. As she was waiting for results, she did not want to keep idle. Her father got her a job through his best friend. She was very happy and started her job. Unfortunately, Gloria's supervisor, a 40 – year – old man Mr. Peter, wants to marry her traditionally, as his second wife.

Task:

Write a piece of advice to your friend Gloria on how to deal with the situation.

SECTION B

Response to one item from each part

Part 1**Item 3**

Mrs. Elizabeth is a prominent business woman who operates a bread manufacturing industry in kampala. Her son John studied graphic design. However, Mrs. Elizabeth used her influence and financial resources to secure John a position as a lead architect in a well – known construction firm, despite John’s lack of qualifications. One day, John was tasked with designing a crucial structural element of a new building. Due to his inexperience and lack of expertise, the design was flawed, leading to a significant construction failure and endangered the lives of the building’s future occupants.

Task:

Basing on the scenario, show the cases of corruption Mrs. Elizabeth and John got involved in and explain the dangers of such acts to the community.

Item 4

In Akaka village is a polygamous family of two wives who all have children. The family had had a piece of land which he distributed equally to the two wives and their children before his death. However

one wife and her children are not happy, they claim that they were allocated land which is infertile, this has left the two wives not talking to each other freely, they keep abusing each other and threatening to kill one another.

Task

- (a) As a student of Christian religious education, help to settle the family in the scenario.
- (b) Using the African traditional society ways and values, help the family above to live in peace

Part 2

Item 5

Do not take revenge my dear friends but leave room for God “wrath for it is written” “it is mine to avenge.” I will repay says the lord on the contrary. If your enemy is hungry, feed him, if he is thirsty, give him something to drink. In doing this you will help burning coals on his head, “do not be overcome by evil but overcome evil with good.”

(Romans 12:19-21)

Task:

Use the above biblical text to promote harmonious living society

Item 6

In walusimbi's community where he lives there are always in conflicts among people. People fight, quarrels and raids each other over food staffs, cattle, land acqusion, among others.

Therefore people end up living in a state of angry and there is also a challenge of hatred among them.

Task:

Considering a Christian and African Tradition views, how can people live in peace or harmony in the scenario.

*****THE END*****

Candidate's Name: Signature:

456/1
Mathematics

Paper 1

March / April 2025

2 hours



STUDY SPHERE EXAMINATION BOARD

Uganda Certificate of Education

PRE – REGISTRATION EXAMINATION 2025

MATHEMATICS

Paper one

2 hours

Instructions to candidates:

1. This paper consists of two sections; A and B. it has six examination items.
2. Section A has two compulsory items.
3. Answer two items from section B.
4. Answer four items in all.
5. Answers must be written on the answer booklet(s) provided.
6. Any additional item(s) answered will not be scored.

SECTION A

Study Sphere Examination Board *"Your Partners In Academic Excellence"*

FOR INQUIRES & MOCKS

Tel: 0782353092 / 0788381260

Item 1

Anne had a password in her phone represented by the word “HARD” with each letter representing a number written in base five. **H** represents 12, **A** represents 1, **R** represents 11, and **D** represents 4. The digits have to be converted to the decimal base to obtain the real password. On cracking the password, Daniella was gifted with a prize of Ugx. 720,000 which she shared with Amos and Bryan in a ratio of 5:3:2. After sharing, Amos saved 20% while Bryan saved a third of his share.

Tasks:

- Write down Anne’s password
- Determine the amount of money Daniella remained with.
- How much money did Amos and Bryan save?

Item 2

You have friends who rear cows and goats. During the festive season, they want to sell at most 10 of their cows and at least 8 of their goats. They also want to ensure that the number of goats they sell are less than twice the number of cows. They also do not want to sell more than 20 animals all together. They wish to maximise sales by selling each goat at Shs200,000/= and each cow at Shs1.5 millions but they do not know the number of goats and cows to sell to fulfil their wish.

YOUR PARTNERS IN ACADEMIC EXCELLENCE

Task:

- write mathematical statements that show the relation between the cows and goats.
- Show the feasible region of the relation on the Cartesian plane.
- Help your friends to determine the maximum amount of money they will possibly make from the sale of cows and goats.

SECTION B

Attempt one item from each part

Part one

Item 3

A school head teacher is thinking of how he can boost the mathematics department of your school. He can either add another teacher or buy more books or both. He has decided that he will do both if the average performance for this year's performance for the 40 students is lower than that of the previous which was **47**. He asked the department to give a test and these were the student's marks.

50	71	40	48	61	70	30	62
44	63	60	51	55	25	32	65
54	45	65	50	45	40	25	45
48	45	30	38	30	28	24	48
30	48	28	35	50	48	50	60

He also visited the library and found out that the previous candidates used three books before their revision. Longhorn, Baroque or Math Clinic. From the librarian's records it is clear that all the candidates that did not use any book failed the subject greatly. Out of the **35** candidates this year **13** used Longhorn, **20** used Baroque and **17** used Math Clinic. **9** used Longhorn and Math Clinic, **3** used Longhorn and Baroque while **8** used Baroque and Math Clinic only. The records show that **2** used all the three books. He observed that he should replace one book type of the three with Fountain publisher since no student read it only alone.

Task:

(a) (i) Help the head teacher group the marks to make an informed decision on

the fate of the department and defend it.

(ii) Display the students' marks in groups on a simple statistics diagram.

(b) (i) Help the head teacher identify the book he should replace and explain why?

(ii) Find the probability that a student selected from the class failed.

Item 4

Three schools from a Gayaza region want to participate in the National Schools Football Sports Gala to be held in Lyantonde district playground. Unfortunately, none of the schools has a school bus and they want to hire a bus for the one day for the activity. The bus charges Shs. 25,000 per km moved. The three schools through their Sports master agreed to share the cost of the bus equally amongst themselves. One day they hired a bus from your school in Gayaza and they set off at **4: 30am** and increased the speed gradually to **90km/hr** reaching Mpigi at **6: 45am**. From there the bus driver maintained this same speed for **2¼** hours reaching Masaka. From Masaka he reduced slowly in speed reaching Lyantonde at **9: 30am**. The games started at **10: 00am** sharp and each team played six games. School A won **3** games, drew **2** and lost **1** game. School B won **4** games and lost **2** games. School C won **2** games and drew **4** games. The organizers award three points for a win, one point for a draw and no point for a loss. They declared these schools the first three schools in order of their points they obtained from the games. They were to receive the prize money of sixteen millions five hundred thousand shillings.

Task:

(a) Find how much each school paid for the bus.

(b) Decide the cash prize for each school.

Part 2

Item 5

Your uncle has offered to drive you to your friend's birthday party. He normally drives his car at an average speed of 50 km/h, so he requests you to get directions to the party reception and the time you are supposed to be there so that you decide on when you can leave home to reach on time. You were informed that the party will start at 2:00 PM and the directions are:

- From your home, take the north eastern direction and reach the supermarket that is 20 km away.
- Then take the road that is south of the supermarket and it will take you 45 minutes to reach the junction.
- From the junction, take the southwestern road and drive 25 km to reach the party reception.

On reaching the party reception using the given directions, your friend remembers that there is a direct route from your home to the reception that you could have used but does not know how long it is.

Task:

- (a) (i) Describe the direction of your home from the party reception.
- (ii) How far is the party reception from your home using the direct route?
- (b) What time would you have to leave home for you to reach the party reception on time, if you used the direct route?

Item 6

You are experiencing water shortages in your area. The area Member of Parliament has been approached by the local council for help.

Below are two similar tanks the Government has decided to give to each village through the office of the member of parliament and 72 villages are to benefit from the Government program.



The smaller tank has a capacity of 20000 litres and costs shs 100,000. It is also observed that the cost is directly proportional to the capacity and the dimensions are doubled.

Task;

- (a) Determine the capacity of the bigger tank.
- (b) Help the area member of parliament to estimate the cost of this project.

***** THE END *****

YOUR PARTNERS IN ACADEMIC EXCELLENCE