ENTREPRENEURSHIP (Financial Management)

Mr. Kasigaire is interested in preparing final accounts but he has no knowledge about the concept. He researched on google but he never understood the responses. Kasigaire needs to be guided on the following to be able to develop final accounts.

Task: Guide Kasigaire on:

i).   Meaning of final accounts
ii).   Examples of final accounts
iii).   Format for preparing of final accounts
iv).   Elements of the two final accounts

NB: Type your findings and send them on e-mail: wamalabenjamin783@gmail.com

ENGLISH

Your best friend at school visited you at home last Sunday and found your parents around. They know very well that your friend is a naughty boy, and they have always warned you against socializing with him. Your father sent him away in disgrace. Write about the incident.

HISTORY

As elections approach in Uganda, a number of people have contested as independent candidates without aligning themselves to any political party. Despite being a democratic country under a multi-party-political system, several contestants from presidential to local council levels have argued that political parties are a waste of time and only aim at exploiting and dividing the masses. This has concerned the electoral commission, which has organized civic education workshops across the country to convince citizens about the importance of political parties in national development and to encourage them subscribe to them. You have been identified by the electoral commission to act as one of the trainers in your community.

Task: Explain to the people in your community convincing them to subscribe to any of the political parties in the country.

AGRICULTURE (Designing a farm layout)

Mr. Kato owns a 4-hectare piece of land in his village. He plans to establish a mixed farm that will include crop production and livestock rearing to provide food for his family and to sell the surplus for income. He intends to grow maize, beans and vegetables and keep dairy cattle, poultry and goats. He also wants to include a farm house, store, water source and access roads within the farm.

He has therefore requested you a senior three agriculture student to help him design a suitable farm layout as part of a school project.

Task: As a senior three agriculture student you are required to:

1. Study the information provided about Mr. Kato's farm

2. Decide how the land can be divided among the different enterprises (crop, livestock, homestead etc)
3. Design a farm layout showing the arrangement of;
   a) Crop fields (maize, beans and vegetables)
   b) Animal units (cattle shed, goats' pen and poultry house)
   c) Farm buildings (farm house, store water tank)
   d) Roads, fences and waste disposal
4. Label all the parts clearly and ensure the design promotes
   a) Efficient use of land
   b) Accessibility and security

Expected output

i). A neatly drawn and well labelled farm layout (top view or map view)
ii). A short-written explanation describing why you arranged the enterprise in that way.

FINE ART: Attempt all

Item 1: Mukisa Nursery School is in need of teaching aid for the pupils and among them is the human figure chart.

Task: Using your knowledge of human figure drawing, solve this problem with a half or full figure drawing/painting baring a pose of your choice.

Item 2: Your Sister, Ms Natende Jane Tracy will be among those graduating during the Makerere University graduation ceremony in January 2025. She will graduate with Bachelor of Industrial and Fine Arts with a First Class Degree (Hons). The color is white and red.

Task: In an area between 25 cm x 30 cm design an invitation card that will invite guests to her graduation party. It will take place on 30th January 2025 at La Jolla Gardens in Wakiso Town Council. Use not more than 4 colors.

MATHEMATICS

ITEM 1: The Ministry of health in Uganda is conducting a survey about existence of malaria in three districts A, B and C. the ministry will then come up with control measures. If the chance of a person testing positive having visited at least one of the districts is above 50%. The ministry has intentionally selected a sample of people who visited the three districts and tested them for malaria. The test results have revealed that 50 people who visited district A, 60 people who visited B and 40 people who visited districts C tested positive for malaria. Additionally, 20 people who visited both districts A and B, 10 people who visited districts A and C and 15 people who visited districts B and C tested positive for malaria. The Ministry has also discovered that 20 people who only visited district C tested positive for malaria and 40 people who visited the three districts tested negative for malaria.
Task:
a) Determine the number of people that were tested for malaria by the ministry of health.
b) Calculate the probability of a person testing positive having visited at least one of the three districts.

c) Advise the ministry of health, with a reason based on calculation, whether to come up with control measures or not.

ITEM 2: Your uncle has offered to drive you to your friend's birthday party. He normally drives his car at an average speed of 50km/h, so he requested you to get direction 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 2:00pm and the directions are:

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

BIOLOGY

During the cross-country race on sports day in your school, one of the best athletes collapsed towards the end of the race. All the members and the sports teacher panicked and lacked an immediate solution. However, the following changes had been observed. **1.** Increased breathing rate, **2**. The runner had a sudden muscle cramp, which led to a muscle pull, **3.** Increased heartbeat, 4. Increased sweating during the race. The head coach advised that the athlete should be taken to the school sickbay. The doctor then advised that the patient should be rested in the room with a lot of fresh air, and the rest of the students were told to vacate the room. Doses of glucose were administered to the patient until he regained consciousness.

Task

a) Explain the observations associated with the collapse of the athletes (05scores)
b) Explain how the doctor's actions led the athlete to be relieved from the above observations. (05 scores)

CHEMISTRY

An investor Ssegawa Alex is planning to establish an ethanol establishing facility, using glucose as the primary feedstock. To assess the feasibility of large-scale production, he first conducts a controlled experiment. In this trial experiment, glucose undergoes fermentation, a process that converts it into ethanol and carbon dioxide.

The investor aims to calculate the mass of ethanol that can be produced from half a kilogram of glucose and also determine the volume of carbon dioxide that will be produced at room

temperature and pressure following concerns raised by environmental officers regarding any emissions. He has come to you for guidance.

<u>Task:</u> **As a chemistry student,**
   a) Explain the category of the organic product
   b) Suggest the suitability of the organic product to its applications in life
   c) Calculate the;
       i). Mass of the organic product produced
       ii). Volume of the gaseous produced at r.t.p
   d) Advise him on the environmental impact associated with the gaseous product.

PHYSICS

ITEM 1: When one of your friends who is a learner of S.3 visited his home are after some years. It was strange for him to learn that one of the old women he used to be close to had a challenge in recognizing him, even when he moved very close to her which used not to be the case. While interacting with her she openly told him that her sight is worsening every year. The old woman had employed people to sink for her a deep well at a rate of shs 5000 per meter, but this old woman had to determine the exact amount of money to pay since she did not have a perfect measuring instrument. Your friend has a digital watch that can detect echoes.

Hint: **Speed of sound =330ms-1 Time to receive the echo =0.365seconds**

Task: Use your knowledge of physics to;
(a) Make the old woman understand her challenges and how it can be minimized.
(b) Help her understand the exact amount of money to pay to the employees.

ITEM 2: One weekend during a premier league match, parents observed that their son always watched the matches on a plasma TV at a close range only. This made the parents concerned about their son's sight and they visited medical personnel who recommended that the student should wear eye glasses with power in the range of (5D-10D). While in hospital hall, they heard sounds of crying patients from the next room which was with closed door and this left them wondering how they sound was able to reach them.

Task: As a learner of physics help the students to;

a) Explain the cause of such a sitting arrangement and the possible measures taken to correct the situation.

b) Explain how sound waves were able to reach them despite crying patients being in a closed door.

c) Establish if the student's sight was restored if he was given an eye lens of focal length, *f=10 cm*.

PHYSICAL EDUCATION

Your school is preparing for a gymnastics exhibition which will take place next year at one of the neighbouring schools. This will include activities like balances (crouch balance, elbow stand, handstand, and V- balance), rolls (forward roll, backward roll, judo roll, side roll, and tank roll),

animal walks (crab walk, duck walk, caterpillar walk and a bear walk) and manipulation of a hula hoop and ribbon.

Your P.E teacher has chosen you in advance to represent your school in the exhibition.

Task: To be in position to represent your school next year, watch a YouTube video or a skilled person performing the above gymnastic skills, follow by imitating the moves until you perfect them.

LITERATURE IN ENGLISH

From any of the texts you have studied, write an explanation of the lessons you obtained to a friend who did not take Literature.

GEOGRAPHY

Do Holiday work in the Geography manual page 95 - 95

LUGANDA

Ggwe nga omuyizi agenda mu siniya ey'okuna (S4) osabiddwa okunoonyereza ku by'obuwangwa bino era owandiike engeri emikolo gino bwe gikolebwa mu Buganda.

(i)   Okwalula abaana   (ii)   Okufumbiriganwa embaga

TECHNICAL DRAWING

A retired policeman owns a plot of land measuring 19 meters by 10 meters. He intends to build a simple retirement house with two rooms.

You have been approached by this gentleman to help in designing this simple house. Provide relevant drawings that the policeman can use to have a clear understanding of the proposed building. (Provide a plan, front elevation, pictorial and a sectional drawing).

KISWAHILI

Kati shule yakko inayopatikana katika wilaya ya kampala, wanafunzi wanapanga kugoma (to strike) kwa sababu ya kunyimwa haki zao shuleni. Wewe mwenyewe haujafurahishwa na mabo mengi shuleni kwenu. Mjulishe au mweleze baba yako anayefanya kazi nchini Kenya kuhusu yale wanafunzi wanapanga kufanya na shida zako zingine shuleni.