

**SEROMA CHRISTIAN HIGH SCHOOL**  
**S.1 MATHEMATICS**  
**GENERAL ACTIVITY**

**1 HOURS 30 MINUTES**

***INSTRUCTIONS TO CANDIDATES***

- Answer *all* the questions.
- All necessary working *must* be shown clearly.

**Number1**

On April 4, 2020 the Covid19 task force started the distribution of food in Kawempe Division(kampala district). Each member in the household was given a package containing 6 kgs of maize flour, and 3 kg of beans. There are 10 households in the community with 3, 5, 7, 4, 6, 5, 8, 12, 13, 4 members respectively.

**TASK**

1. Determine the number of packages the task force distributed in Kawempe division.
2. Determine the total weight of the maize flour that was distributed in the division.
3. In case there are some remaining packages, discuss what the task force should do with them.
4. The prices of beans and maize flour were approximated to be at 4000UGX and 2500UGX per kilogram respectively. What is the total amount of money spent by the government on maize flour and beans in the 10 households.

**Number 2**

Stephen is planning a graduation party and wants to give his guests some snacks on arrival for the party. He buys 72 cup cakes, 144 apples and 288 chocolate bars

- **Support:** Each plate must have exactly the same number of chocolate bars, apples, and cup cakes. There must not be any left overs.
- **Knowledge:** Knowledge of factors, highest common factor and numbers
- **Tasks:**
  1. What is the greatest number of guests Stephen must invite for the graduation party
  2. Write down the number of guests in words

### Number 3

- Seroma Christian High School has two sections, that is lower UNEB (S.1-S.4) and Upper UNEB (S.5-S.6). The Director of studies of the school needs to draw a timetable for the online lessons for both sections. The sections should start and end their morning lessons at the same time before break time, start and end their break time at the same time. The after break lessons should start at the same time. The lunchtime for both sections should start at the same time and end at the same time. The after Lunch lessons should start at the same time and end at the same time. Math must have 3 hours in a week in each class
- **Support:** The time to start lessons for the two sections is 8.30am and lessons end at 4:30pm. The duration of the lesson for the Lower UNEB section is 1 hour and that of the Upper UNEB is 2 hours. Assume the following subjects to be offered

|         |           |         |                  |           |            |       |
|---------|-----------|---------|------------------|-----------|------------|-------|
| Math    | English   | History | Art              | Geography | CRE        | Music |
| Biology | Chemistry | Physics | Entrepreneurship | Home mgt  | Psychology | P.E   |

- **Resources:** Knowledge of fractions, percentages, natural numbers, factors, multiples, lowest common multiples, and the subjects taught in all classes and of time.
- **Tasks:**
  - Help the Director of studies by drawing the timetable for the week (monday to friday) for the two sections.
  - How many lessons does each section have up to lunchtime?
  - What is the total number of hours in a week for the lower section

### Number 4

A Senior One learner has reported in her class and has settled at her desk.

- **Support:** The classroom is arranged in rows and columns. It is a big class with each learner having his/ her own desk.
- **Resources:** Knowledge of horizontal and vertical lines i.e. rows and columns, coordinates
- **Knowledge:** counting numbers
- **Task:** The mathematics teacher has asked her to explain how she can access her seat, starting from the entrance of the class. Discuss whether there are other ways of reaching her seat.

**END**

Name.....Signature.....

**S1 BIOLOGY**

**(Theory)**

**DECEMBER,2020**

**2Hours**



**Uganda Certificate of Education**

**BIOLOGY EXAMINATION 2020**

**2 hours**

**INSTRUCTIONS TO CANDIDATES:**

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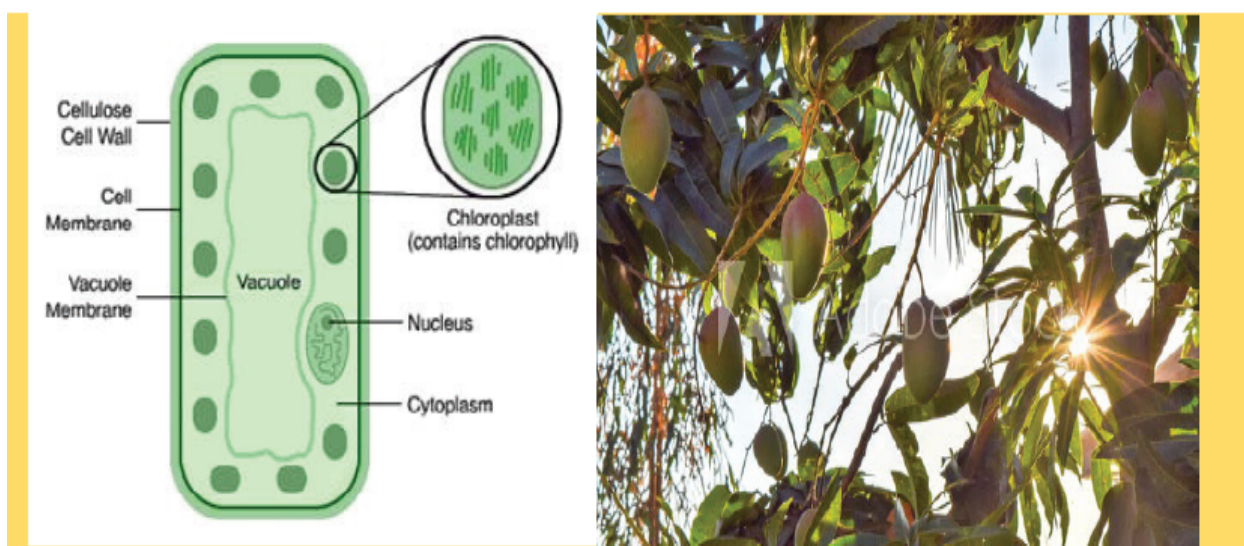
*This paper consists of **TWO** numbers 1 and 2*

*Both numbers are compulsory*

*Candidates are advised to read the questions carefully, organize their answers and present them precisely and logically.*

## **ACTIVITY OF INTEGRATION**

1. You have been asked to give a talk to the primary seven class of your former school. The talk is about importance of plants to man. The primary seven class already know that plants make their own food but they do not know the details of the structures involved in the process. Your task is to write down (in not more than 100 words) how you would explain this in your talk using your knowledge of Biology. You can use the image below during your talk.



2. For the table below, search and circle the following
  - (i) Four members of kingdom Protista
  - (ii) (a) A fungus that spoils bread.  
(b) unicellular fungus  
(c) fungus used to make medical drugs  
(d) A fungus that can be eaten  
(e) component of fungus cell wall
  - (iii) Two diseases caused by bacteria.

(NB; when circling, the words may appear straight across, backward straight, up-down, down-up or diagonally)

|   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |   |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| E | N | A | R | B | M | E | M | U | S | H | R | O | O | O | M | X | P |
| I | O | N | I | S | A | O | R | C | H | L | O | R | O | P | H | Y | U |
| F | U | R | C | H | O | L | E | R | A | A | A | B | Y | U | J | J | F |
| E | C | U | Y | R | Q | J | W | Q | M | R | N | U | C | L | E | A | F |
| A | L | O | H | U | X | U | P | Z | O | T | E | Z | P | L | A | N | B |
| R | X | S | O | C | H | I | T | I | N | A | L | T | L | O | T | X | A |
| U | U | P | U | X | N | I | C | K | L | E | G | M | A | I | D | S | L |
| M | I | L | S | E | X | H | E | A | R | T | U | B | S | R | T | R | L |
| X | A | W | E | D | P | U | P | R | O | T | E | U | M | O | N | E | R |
| H | E | U | T | I | E | A | A | O | Z | O | A | D | O | P | I | X | Z |
| T | Q | H | E | S | S | R | R | E | M | O | R | Y | D | F | P | Q | S |
| U | U | A | H | U | O | T | O | A | Y | R | T | W | I | N | D | O | W |
| O | E | N | C | P | L | I | X | T | M | F | H | O | U | J | R | S | M |
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| T | U | B | E | R | C | U | L | O | S | I | S | X | J | M | N | R | C |

**END**

**Signature** .....

*Nov/Dec. 2020*

***2 hours***

### ***S.1 CHEMISTRY***

### *Activity of inergration*

***2 hours***

***INSTRUCTIONS TO CANDIDATES:***

*Answer all questions.*

Answers to these questions **must** be written on separate booklet(s).

[illegible]

1. "Chemistry is a laboratory science. Its subject matter ,and theories, are all based on experimental observations. However, its scope reaches out beyond the laboratory into every aspect of lives , to our understanding of nature of our planet, the environment we live in, the resources available to us and factors that affect our health.

It should indeed be brought to our attention that the knowledge of chemistry is being used in every day life and it has contributed to the social and economic development of our country,Uganda and the world as well."

As a student who has attained knowledge of chemistry, and aware of its various applications in both social and economic development of the nations, write a well elaborated speech you would give before the people as member who has been choosen to represent the Uganda Chemistry Students' forum in a workshop held at Kenyatta University. on the theme application of chemistry, and its contributions to the social- economic development of our country,Uganda.as well as high lighting the negative effects of application of chemistry knowledge on the environment and how these effects can be solved.

### **HINT**

- give a brief introduction
- define chemistry in detail and examples of chemistry in daily life
- identify areas where chemistry is applied
- explain how chemistry has contributed to economic development of our country and give examples in each case.
- mention the effects of application chemistry knowledge on environment and measures to overcome such effects.

### **Note**

Your speech should not exceed 4 pages.

2. Chemistry is a branch of science that deals with the study of matter, its properties and composition. Matter is anything that occupies space and has weight. Further more, matter is in different states that is ,solids, liquids, gases,and plasma States and these states of matter have different physical properties. As a result, many industrialists have been in position to use these properties of matter in manufacture of various products such as, juices, detergents,newspapers, ice cream, iron bars, iron sheets,biscuits and bread, gases in fire extinguisher, gas cookers etc. All these have been made using the knowledge of chemistry.

QN. Mukwano industries, Uganda Ltd, as one the major leading producers of various products in different states of matter, employed you as their marketing officer. Write a short features for the Daily monitor newspaper, advertising company's products.

**Note:** In your advertisement, mention various products you produce, their physical states of matter, and why the state of matter it is sold, is important. Write an enticing note for costumers to show interest in your products.

3. "It's said that a laboratory is a place of adventure and discovery, in fact some of the most exciting events in the history of science have taken place in the laboratory eg discovery of oxygen. Actually, laboratory in everyday life is compared to the kitchen which consist of kitchenware. Therefore, while using laboratory, safety precautions and measures have to be taken to prevent accidents and injuries. These safety precautions are known as rules and regulations."

Read a short passage below and answer the questions.

“Abigail, a student offering chemistry at seroma Christian high school was required to prepare porridge from millet flour in the laboratory as instructed by her chemistry teacher. She wrapped her sweater around waist and folds arms of her school shirt, picked on ran to the laboratory. On entering, knocked the table



with glassware but fortunately never broke them. However, her books fell down into bucket of sodium hydroxide solution a laboratory technician had prepared. Abigail rushed to heating apparatus (Bunsen burner) and without following the procedures, she switched on gas and lit the fire. She almost exploded the whole laboratory had it not been the presence of a technician who rescued the incident by extinguishing the fire using the fire extinguisher. Out fear, Abigail ran and fell down again in trying to save her life and glass beakers fell down. While trying to collect broken pieces, her fingers and palm were cut and injured. In pain she rushed to wash blood using water and in the process, the sweater around her waist pulled down a bottle of concentrated acid on next table and poured on her leg and got burn even her stockings. Abigail was rushed to school clinic and never carried an experiment. It was such a bad day for her.!”

- i) from the above passage, what errors (mistakes) were committed by Abigail?
- ii) How could Abigail have avoided accidents?
- iii) using the above passage, what rules and regulations should have been followed to ensure safety before and after entering the laboratory?
- iv) Draw a well labeled diagram of the heating apparatus (Bunsen burner) Abigail wanted to use, name the types of flames produced, and type of flame best for heating.

**SEROMA CHRISTIAN HIGH SCHOOL**

**S.I C.R.E ASSESSMENT 2020.**

**ACTIVITY OF INTEGRATION.**

**Time: 1 hr: 15min.**

## **WORSHIP**



1. What is the type of worship in the photograph?
2. Where is the worship taking place? Give two reasons for your answers.
3. The worshipers are in a group. Mention three advantages of group worship as opposed to individual, worship.
4. What is importance of singing as a form of worship?
5. Why is it difficult for some people to sing while in church? Give five reasons.
6. Write a short prayer of not more than 5 lines to God expressing appreciation for keeping you safe throughout this Covid 19 pandemic.

**=Good Luck=**

**SEROMA CHRISTIAN HIGH SCHOOL**  
**ONLINE EXAMINATIONS DECEMBER 2020**

**S.1 ENGLISH LANGUAGE**

**2 HOURS**

**NAME..... STREAM.....**

**Instructions:**

**Answer all questions**

**1. Read the following passage and answer the questions that follow.**

**POLLUTION IN UGANDA**

Pollution is said to be the biggest killer in developing countries. Contaminated air, water and soil claim millions of lives every year. Rapid urbanisation and economic growth brings fears that these numbers will only rise in years to come. In Uganda, the effects of pollution on people are becoming more visible. The World Health Organisation (WHO) says more than eight million people die around the world each year as a result of living in a polluted environment.

In Kampala, Dr Kiggundu Tamale said the effects of air pollution are becoming more and more noticeable. "Air pollution has become one of the biggest challenges faced in Uganda, especially in urban centres. The main cause of air pollution is transport, especially rapid motorisation that is being experienced in urban areas. But then there are other causes, like mining and open waste burning," said Dr. Tamale. Doctors say it is often difficult to tie someone's health problems especially to air pollution. In recent years though, doctors in Uganda have seen an increase in the number of patients with Lung problems.

Dr William Worodria said air pollution has multiple effects "And particularly the lungs, the heart and other body systems. In the lungs you may have chronic lung disease, like bronchial asthma, and chronic obstructed lung diseases, even lung cancer has been reported to be associated with air pollution," said Dr Worodria.2 Worldwide, the WHO says pollution kills more people than malaria, HIV and AIDS and tuberculosis put together. Yet, the population is many times not protected from pollution by government. Studies by Ugandan scientists suggest about 14 percent of children between the ages of 8 and 14 living in Kampala have bronchial asthma.

Dr Worodria said researchers found similar results in one of Uganda's rural districts. In such districts, other forms of pollution included indoor pollution from smoke which comes from the cooking using firewood. About 14 percent of the people in the rural district had some form of

lung diseases. Scientists and health officials say, one of the reasons air pollution is not given attention in many countries is because it cannot be seen easily and therefore not considered to be a big problem. “For example, if you have poor road infrastructure or electricity, this is obvious. So our politicians tend to focus more on problems that are visible. But air pollution is less visible and, therefore, our decision makers or policy makers do not see it as very important,” said Dr Tamale.

Recently, however, Ugandan health officials and the government have started a campaign to raise awareness about lung diseases caused by air pollution. One suggested approach includes trying to get people out of their cars and walking, before Uganda becomes congested not only by cars but by their exhaust fumes.

**By Serginho Roosblad February 18, 2015**

**Questions:**

1. According to this passage, what is the cause of millions of deaths?

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.....

2. Where in Uganda is the biggest problem of air pollution being faced?

.....

.....

3. What are the two main causes of air pollution?

.....

.....

4. What is the cause of lung diseases in the rural areas mentioned in the passage?

.....

.....

5. What is the danger of having many cars in the urban areas of Uganda like Kampala?

.....

.....

2. Rewrite these sentences so that they have the same meaning using the comparative and superlative form of the adjective.

a) I'm older than your brother.

Your brother is.....

b) Petrol is more expensive than it used to be.

Petrol isn't.....

c) There were less casualties than in the other accident.

There weren't.....

d) I know your children better than you.

You don't.....

e) I usually get up earlier than my wife.

My wife.....

f) If you go to bed early, you sleep better.

The.....

g) Her coat is much more expensive than mine.

My coat.....

h) Martial has never played such a good game.

This.....

i) I have never met a worse liar than your brother.

Your brother.....

j) I have never read such a bad novel.

It is.....

3. Locate the error, correct it, and rewrite each sentence correctly.

a. Me and Diana work together.

.....

b. Ricky and me are both taking psychology.

.....

c. My brother lives in Ohio with Paula and I.

.....

d. Maria she is a dancer.

.....

e. The teacher is talking to we.

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4. Your young sibling finds it difficult to prepare rice. Write a recipe that will guide her the next time she is cooking.

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SEROMA CHRISTIAN HIGH SCHOOL

S.1 ENTREPRENEURSHIP EDUCATION EXAMINATION

TIME: 1 ½ hour

**INSTRUCTIONS**

- Attempt ALL questions in this paper.

| NO    | MARKS |
|-------|-------|
|       |       |
|       |       |
|       |       |
| TOTAL |       |

1. Study the diagram below and answer the questions that follow.



- a) Define a business idea?
- b) List down any business opportunities based on the above diagram giving a reason for the selection of each opportunity.



| OPPORTUNITY | REASON |
|-------------|--------|
|             | ..     |
|             |        |
|             |        |
|             |        |

- c) State any four likely benefits of any opportunity selected above to;
- i. An entrepreneur

- ii. Community

2. i) Identify any five (5) local materials one can use to produce a good.

- ii) Identify any five (5) sources of local materials to be used for production of such items.

- iii) What is the importance of using local materials from the community for production of goods.

3. a) Define market survey

a) list down five important elements on which market survey is carried out.

b) state any five reason why an entrepreneur may carryout market survey

4. a) Define a business

a) List down the four types of business available for entrepreneurs giving an example in each case.

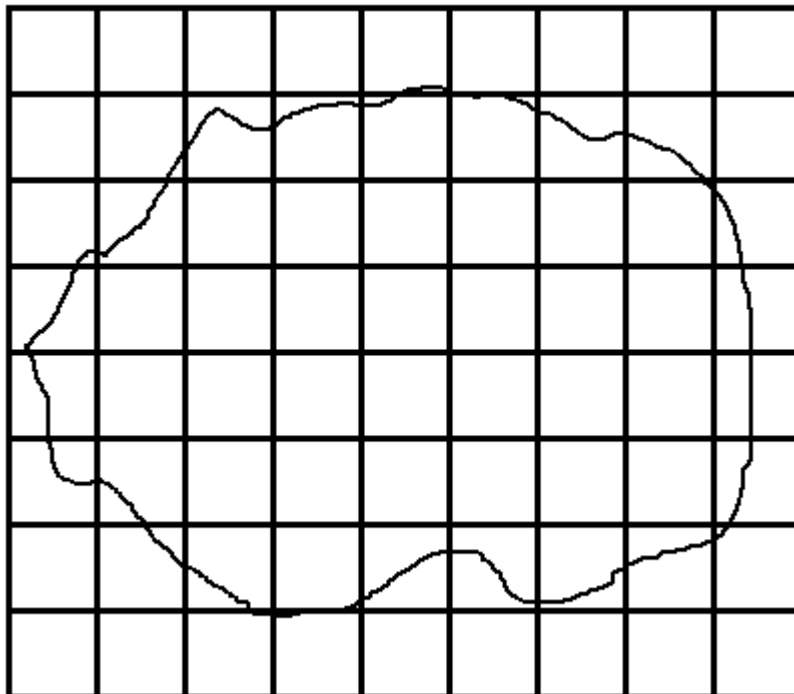
| Type of business | Example |
|------------------|---------|
|                  |         |
|                  |         |
|                  |         |
|                  |         |

**END**

## S.1 GEOGRAPHY 1 TEST 2020

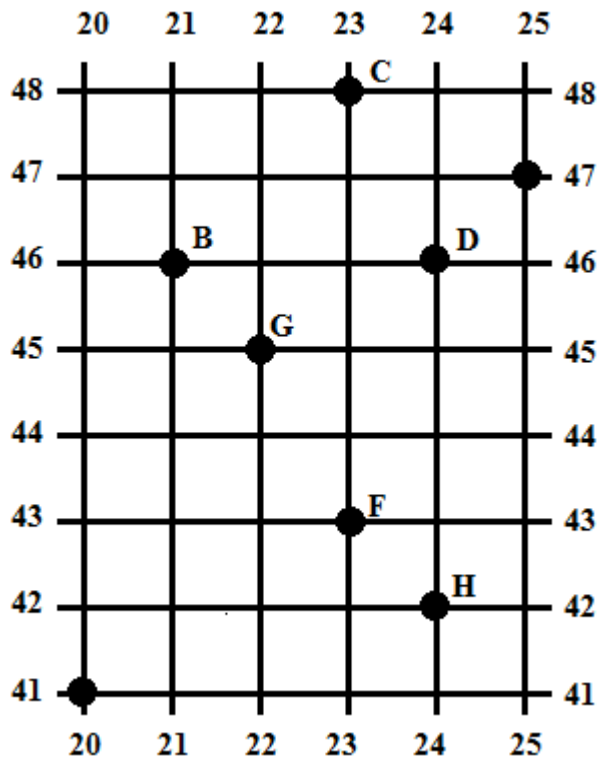
TIME: 1 1/2 HOURS

1. (a) What is a map?  
(b) Outline the qualities of a good map.
2. Write down 10 (ten) different ways how man can make use of the environment around him.
3. How does man affect the environment through his activities.
4. Draw a map of your home.
5. (a) Name three types of scales.  
(b) If the map has a scale Of 1:50,000, what is its statement scale?
6. Calculate the area of the lake below.



7. Explain the benefits of studying Geography
8. In the Grid reference system, the vertical lines are  
called.....because.....  
The Horizontal lines are called.....because.....

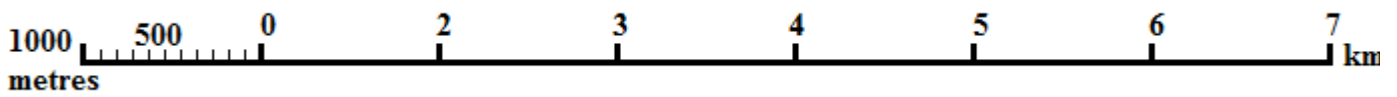
9.



Give the four figure Grid references for the points, A, B, C, D, E, F, H.

10. Draw a compass showing all the 16 cardinal points.

11.



using the linear scale provided, measure the distance in Kilometers of dry weather road.



**END**

## **SEROMA CHS**

### **S.1 HISTORY AND POLITICAL EDUCATION**

Mukisa a 24 year old Ugandan citizen had a lot of ambitions when he was young .He wanted to be rich and be known in the whole world unfortunately he worked so hard for 10 years in Uganda but did not get .He decided to go the employment companies and seek for a job abroad in the Middle East.

- a) Why do think people like Mukisa have resorted to modern migrations today give 10 reasons .
- b) What challenges have they faced in those countries Give 10 reasons?
- c) Suggest ways of limiting Mukisa to get to those countries in relation to the Ugandan government.
- d) Why did our ancestors migrate from their cradle land a thousand years ago.
- e) Compare the reasons for the current migrations and those of long ago.

**END**

**SEROMA CHRISTIAN HIGH SCHOOL**  
**END OF TERM TWO ONLINE EXAMS 2020**  
**S1 PHYSICS**

**INSTRUCTIONS:**

- Attempt all the questions and write the essays in a very neat handwriting.
  - Each number should start from a fresh page.
  - Use the internet and research well before answering the questions. Each essay should occupy 1 to 3 pages. Essays occupying less than 1 page will score 0.
- 
1. State any ten reasons why students in Uganda need to study Physics? Use examples of the possible technological advancements which can be made using the knowledge of Physics.
  2. (a) What is Plasma?  
[Hint: What is plasma made up of and what are its properties?]  
(b) Why do we need to study plasma in Physics?
  3. The knowledge of Physics has been and is still being developed by many scientists. Throughout history, there are many names of these great scientists who have changed the way people live on earth.  
(a) Study any two great Physicists and write down their biographies.  
(b) What lessons do you learn from these individuals?

*\*\*\*MERRYCHRISTMAS AND A HAPPYNEW*

*YEAR\*\*\**