**HOPE HIGH SCHOOL KIZIBAWO**

**END OF TERM II EXAMS**

**S.1 CHEMISTRY**

**TIME: 2 HRS**

**INSTRUCTIONS**

*Attempt eight questions from this paper*

1) Betty, a senior one girl wants to separate a mixture of sand and water from their mixture.

i) State one method she can use to separate the mixture.(01)

ii) Briefly describe the procedure she should follow to separate the mixture above.(03)

2) In an experiment to investigate the existence of particles of matter. Abdul and Tony carried out the experiment; they poured powdered pollen grains particles onto water in a glass beaker and then passed beam of light into the beaker. When each one of the student observed through the microscope, they saw pollen grains behaving in different manner.

a) State the manner in which pollen grains were behaving. Give a reason for your answer (02)

b) Suppose Abdul and Tony increased the temperature of water, state what they would have observed. Give a reason for your answer.(02)

3) Outline four ways how you can conduct yourself in the laboratory during chemistry experiment to ensure that every one is safe.(04)

4) In a certain experiment, the toilet is near the senior one class. The foul smell disturbs the student s in the class and smell is much more on the hot day

i) Explain briefly how small molecules are able to move from the toilet up to the room.(02)

ii) Explain why the smell became much during the hot day.(02)

5) Alice was sent into the dark room to light a candle using a match box.

i) State what happened to candle upon lighting.(01)

ii) Explain your observation above. (02)

iii) To which state of matter does a candle belong? (01)

6. Tea leaves were put in a cup of water and left to stand for some times.

a) What happened to the water? Explain.(01)

b) A tiny crystal of potassium permanganate was put in another cup containing water

i) State what was observed?(01)

ii) Explain your observation.(01)

iii) Name the process being investigated above.(01)

7) Anna, Joan, Annette both washed their clothes at the same time. Anna hanged her clothes under sunshine .Joan hanged her clothes inside the house and Annette hanged her clothes on the wind but not exposed to sunshine.

a) Explain why clothes of;

i) Anna dried under sunshine.(01)

ii) Joan dried in the house.(01)

iii) Annette clothes dried on the wind.(01)

b) Which of the three clothes dried faster?(01)

8) Joshua was told to inflate the balloon and he was told to put it under sunshine for 2hours and later returned it to a dark room for seven days. Use kinetic theory of matter to explain.

I) what happened to the balloon under sunshine? Explain your answer.(02)

ii) What happened to the balloon in the dark room for seven days? Explain your answer.(02)

9) Paul mixed two indicators; phenolphthalein indicator and methyl orange indicator and he wanted to to separate them.

i) Which method can Paul use to separate those indicators?(01)

ii) Briefly describe how Paul can separate those indicators using the method above.(02)

iii) Which of the two indicators moved to a longer distance and why?(01)

10) In case of any fire outbreak in a school laboratory, a fire extinguisher can be used to stop the fire.

Briefly describe the steps that can be followed when using fire extinguisher to stop fire.(04)

**\*\*\*\*WISHING YOU A NICE HOLYDAY, STAY SAFE\*\*\*\***