**Name………………………………………..…………………………………….…… Adm.No. ………..……….… Class …….……….**

**KAHUHO UHURU HIGH SCHOOL**

**231 BIOLOGY**

**Form 4 Revision Series**

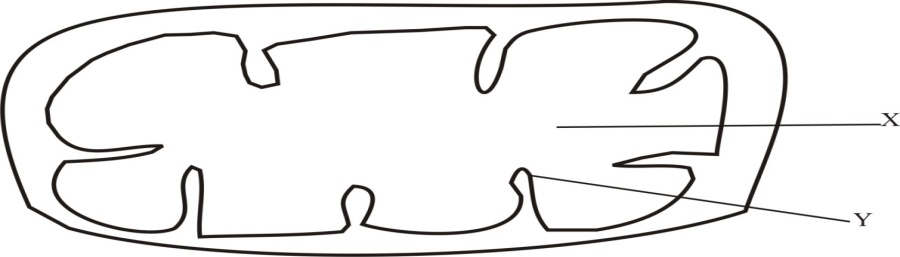
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**Respiration quiz**

**40 min**

**Questions**

1. Below is a diagram of an organelle that is involved in respiration



1. Name t he organelle …………………………………………………………… ( 1mark)
2. Name the part labeled **X**………………………………………………………… (1 mark)
3. What is the purpose of the part labeled **Y** (1 mark)

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1. (a) Define the term oxygen debt (2 marks)

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1. State what happens to the lactic acid produced by active muscles during anaerobic

respiration (2 marks)

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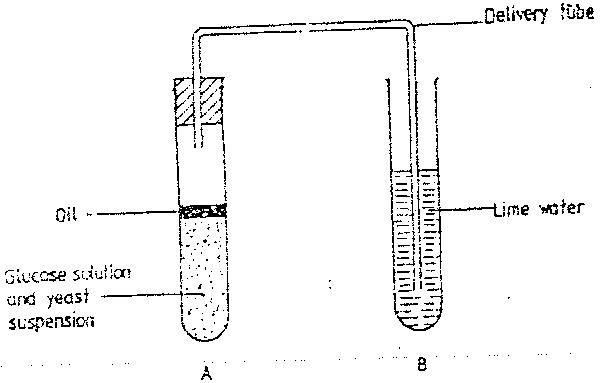
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1. State four differences between aerobic and anaerobic respiration (4marks)

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1. The diagram below shows a set – up that was used to demonstrate fermentation



Glucose solution was boiled and oil added on top of it. The glucose solution was then allowed to cool before suspension.

* 1. Why was the glucose solution boiled before adding the yeast Suspension? ( 1 mk)

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* 1. What was the importance of cooling the glucose solution before adding the yeast suspension? ( 1 mk)

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* 1. What was the use of oil in the experiment? ( 1 mk)

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* 1. What observation would be made in test tube B at the end of the experiment? ( 1 mk)

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* 1. Suggest a control for this experiment ( 1mk)

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1. Name the substance which accumulates in muscles when respiration occurs with insufficient oxygen. (1mks)

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1. Identify the products of anaerobic respiration in;- (6 marks)
2. Animals

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1. Plants

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1. What is meant by the following terms as used in repiration (3 marks)
2. Respiratory quotient

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1. Aerobic respiration

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1. Glycolysis

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1. What is the significance of Respiration (4 marks)

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1. Distinguish between aerobic and anaerobic respiration (4 marks)

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1. Discuss the applications of anaerobic Respiration to man (14 marks)

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