**NAME………………………………………………………….. ADM. NO……………………**

**ITETANI GIRLS’ HIGH SCHOOL**

**P.O. BOX 2220 – 90100**

**MACHAKOS**

**TERM ONE, 2018**

**FORM ONE**

**CHEMISTRY**

*Answer all the questions in the spaces provided*

2. Form One students added a colourless liquid to anhydrous cobalt (ii) chloride. The colour of anhydrous cobalt (ii) chloride changed from blue to pink and they concluded that the colourless liquid was pure water.
3. Give a reason as to why their conclusion was wrong. (2 Marks)

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1. Describe an experiment that they can use to correct their conclusion (2 Marks)

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1. What is the effect of impurities on the melting and boiling points of pure substances? (2 Marks)

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1. Differentiate between a compound and a mixture (2 Marks)

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1. Differentiate between an element and a molecule (2 Marks)

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2. Define the following terms (3 Marks)
3. Drug

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1. Drug abuse

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1. Conductor

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1. Give two reasons as to why many apparatus in the laboratory are made up of glass or plastic (2 Marks)

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1. State any two rules which are followed to ensure safety in the laboratory (2 Marks)

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1. Form One students conducted the experiment below. Use it to answer the questions that follow:
2. What were they investigating? (1 Mark)

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1. Explain why a new flame was formed at the end of the glass tube when it was lit (2 Marks)

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1. What is the name given to the type of flame shown above? (1 Mark)

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2. Give two reasons as to why a non-luminous flame should be changed to luminous flame or put out when not in use. (2 Marks)

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1. State the chemical symbols of the elements below: (4 Marks)
2. Nitrogen

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1. Sodium

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1. Carbon

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1. Calcium

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1. Give differences in chemical composition of: (3 Marks)
2. Sodium nitrate and sodium nitrite

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1. Ammonium sulphate and ammonium sulphite

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1. Ammonia and ammonium

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