

**312/1
GEOGRAPHY
PAPER 1**

CONFIDENTIAL

Map of Karatina 1: 50,000 (Sheet 121/3)

KIHARU/KAHURO DISTRICT JOINT EXAMINATION – 2014

233/3
CHEMISTRY
PAPER 3
(PRACTICAL)

CONFIDENTIAL INSTRUCTIONS:

KIHARU/KAHURU DISTRICT JOINT EXAMINATION – 2014

Apart from the common laboratory fittings each students should be provided with the following materials and apparatus.

1. About 100cm³ of 1M sulphuric (VI) acid labelled solution P.
2. About 100cm³ of 0.5M sodium hydroxide labelled solution Q.
3. 4cm of magnesium ribbon labelled solid R.
4. Thermometer (-10°C - 100°C).
5. 100ml measuring cylinder.
6. 100ml plastic beaker.
7. Burette.
8. 25ml pipette and pipette filler.
9. 250ml conical flasks.
10. 1 red and 1 blue litmus papers.
11. About 30cm³ of 2M hydrochloric acid labelled solution V.
12. About 200cm³ of 0.4M sodium thiosulphate solution, solution W.
13. 10ml measuring cylinder.
14. 250ml conical flask – must be very clean.
15. 2 filter papers and 1 filter funnel.
16. 1 stopwatch.
17. Glass rod.
18. Two spatula end full ZnSO₄ + ZnCO₃ mixture in the ratio 1:1 by mass mixture, solid Y.
19. A metallic spatula.
20. 1g of maleic acid labelled solid X.
21. Distilled water.
22. 1 label.
23. 250ml beaker 2 beakers.
24. 1 boiling tube and four test-tubes.
25. Access to:
 - Lime water
 - 2M nitric (V) acid
 - Phenolphthalein indicator
 - Aqueous lead (II) nitrate solution
 - Acidified potassium manganate (VII) armed with dropper.
 - Aqueous ammonia solution.
 - Bunsen burner.

231/3
BIOLOGY
PAPER 3
(PRACTICAL)

CONFIDENTIAL:

KIHARU/KAHURO DISTRICT JOINT EXAMINATION – 2014

1. Solution P is (is a mixture of starch + egg albumen and ascorbic acid).
- Iodine solution
 - Benedict's solution
 - Sodium hydroxide
 - Copper (II) sulphate.
 - DCPIP solution. **NB**: All with droppers.
 - Source of heat.
 - 4 test tubes in a rack.
 - Test tube holder.

232/3
PHYSICS
PAPER 3
(PRACTICAL)

CONFIDENTIAL:

KIHARU/KAHURO DISTRICT JOINT EXAMINATION – 2014

QUESTION ONE:

Each candidate will require:

- A 30cm classroom ruler.
- Two metre rules.
- A stopwatch.
- A funnel (small size).
- A rectangular stiff paper labelled M.
NB: The paper can be cut from a manila paper.
Size: 3cm × 5cm
- One 100g mass.
- A piece of sewing thread (thin) 100cm long.
- A piece of knitting thread (strong) about 70cm long.
- A pendulum ball.
- Two retort stands, two bosses and two clamps.

QUESTION TWO:

Each candidate will require:

- A 100cm nichrome wire mounted on a metre rule (swg 32).
- A switch
- An ammeter.
- Two dry cells.
- A cell holder.
- A filament bulb of 2.5V mounted on a holder.
- Eight connecting wires (four with crocodile clips at one end).
- Voltmeter (0 – 3 or 0 – 5V).

441/2

HOME SCIENCE (CLOTHING CONSTRUCTION)

PAPER 2

(PRACTICAL)

KIHARU/KAHURO DISTRICT JOINT EXAMINATION – 2014

Kenya Certificate of Secondary Education

HOME SCIENCE (CLOTHING CONSTRUCTION)

PAPER 2

(PRACTICAL)

TIME: 2½ HOURS

CONFIDENTIAL TO SCHOOLS:

Provide candidates with the following materials.

- 1) Plain white cotton fabric 70cm long by 90cm wide.
- 2) Sewing thread to match the fabric.
- 3) One large envelope per candidate.
- 4) 7” zip colour to match the fabric.