

# NTIMA, NYAKI AND MUNICIPALITY CLUSTER EVALUATION 2016

## BIOLOGY

Paper 3

July/August 2016

### CONFIDENTIAL INSTRUCTIONS

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The information contained in this paper is to enable the head of the school and the teacher in charge of Biology to make adequate preparations for this year's Joint Evaluation examination.

**NO ONE ELSE** should have access to this paper or acquire knowledge of its contents.

**GREAT CARE** must be taken to ensure that the information herein does not reach the candidates either directly or indirectly.

Requirements :

Each candidate should be provided with :

- hibiscus flower (complete) labelled M
- sharp scapel
- hand lens
- 10 bean seeds per student soaked in water for 24hrs (or overnight)
- hydrogen peroxide 20ml (freshly prepared)
- wooden splint
- 1% copper sulphate solution
- 10% sodium hydroxide solution
- Benedict's solution
- means of heating
- 5 test tubes
- iodine solution
- measuring cylinder (10ml)
- pestle and mortar (shared)
- metallic spatula
- labels (five)

# NTIMA, NYAKI AND MUNICIPALITY CLUSTER EVALUATION 2016

## CHEMISTRY

Paper 3

July/August 2016

### CONFIDENTIAL INSTRUCTIONS

The information contained in this paper is to enable the head of the school and the teacher in charge of Chemistry to make adequate preparations for the Chemistry Practical examination.

**NO ONE ELSE** should have access to this paper or acquire knowledge of its contents. **GREAT CARE** must be taken to ensure that the information herein does not reach the candidates either directly or indirectly. The teacher in charge of Chemistry should **NOT** perform any of the experiments in front of candidates.

#### Requirements for candidates

In addition to the fittings, substances and apparatus ordinarily found in a Chemistry laboratory each candidate will require :

1. About 50cm<sup>3</sup> of solution B
2. About 100cm<sup>3</sup> of solution C
3. One 25ml pipette
4. One burette 0-50ml
5. Two conical flasks
6. One thermometer
7. Stop watch / stop clock
8. 250ml volumetric flask
9. 6 test tubes
10. 250cm<sup>3</sup> plastic beaker
11. One boiling tube
12. Metallic spatula
13. Filter funnel
14. Retort stand
15. Means of labelling
16. Distilled water in 500ml bottle
17. Filter paper
18. 100ml measuring cylinder
19. 10ml measuring cylinder
20. 5 pieces of magnesium ribbon (labelled M each 1cm long)
21. Solid Q 4.5g ammonium nitrate
22. Boiling tube

Access to :

1. 2M NaOH supplied with a dropper
2. 2M NH<sub>3(aq)</sub> supplied with a dropper
3. 2M HNO<sub>3(aq)</sub> supplied with a dropper
4. Dilute Ba(NO<sub>3</sub>)<sub>2</sub> solution
5. Phenolphthalein indicator
6. Dilute Pb(NO<sub>3</sub>)<sub>2</sub> solution
7. Dilute potassium iodide
8. Acidified KMnO<sub>4</sub> supplied with a dropper (freshly prepared)
9. NaCl solution
10. KI solution
11. Means of heating

Note: solid X - mixture of PbCO<sub>3(s)</sub> and Na<sub>2</sub>SO<sub>3(s)</sub>  
ratio 1 : 1

Solution B - 2M HCl

Solution C - 0.1M NaOH

Acidified KMnO<sub>4</sub> is 0.1M

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PHYSICS  
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## **CONFIDENTIAL INSTRUCTIONS**

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Each candidate will require :

### **Question 1**

Each candidate will require :

- a boiling tube
- a measuring cylinder (10ml or 25ml)
- a half metre rule
- some water in a container
- a stand complete with boss and clamp
- vernier callipers (may be shared)
- a glass block (approximately 10cm x 6cm x 2cm)
- a plain sheet of paper
- five optical pins

### **Question 2**

- an ammeter (0 - 2.5A)
- a voltmeter (0 - 5V)
- nichrome wire (SWG 28) mounted on a mm scale
- a switch
- two new dry cells (size D)
- a cell holder
- six connecting wires at least four with crocodile clips at one end
- a micrometer screw gauge (may be shared)

# **NTIMA, NYAKI AND MUNICIPALITY CLUSTER EVALUATION 2016**

## **GEOGRAPHY**

Paper 1

July/August 2016

### **CONFIDENTIAL INSTRUCTIONS**

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Provide a map of Busia 1 : 50,000 (sheet 101/1)

# NTIMA, NYAKI AND MUNICIPALITY CLUSTER EVALUATION 2016

## CLOTHING AND TEXTILES

Paper 2

July/August 2016

### **CONFIDENTIAL INSTRUCTIONS**

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#### INSTRUCTIONS TO SCHOOLS

The following should be provided :

1. Enough sewing equipment.
2. Plain light weight cotton fabric 65cm x 90cm wide
3. Sewing thread to match the fabric

NB: Fabric in excess of the amount specified must not be supplied to the candidates.