

**233/3  
CHEMISTRY  
PAPER 3  
PRACTICAL  
JULY 2011**

**KIBWEZI SECONDARY SCHOOLS EXAMINATION  
CHEMISTRY  
PAPER 3**

**CONFIDENTIAL**

**REQUIREMENTS**

A part from the common laboratory apparatus and chemicals, each candidate will require the following:

- 6cm of solid E, an equivalent of 0.15g
- 100cm<sup>3</sup> of solution F
- 70cm<sup>3</sup> of solution G
- One burette ( 0 – 50 ml )
- One pipette ( 25ml ) and a pipette filler.
- One thermometer ( 0<sup>0</sup>C – 100<sup>0</sup>C )
- One 100ml beaker
- One 250ml volumetric flask
- Two conical flasks
- A label sticker
- 1.0g of solid K – Supplied in a well stoppered ( or sealed ) container to prevent moisture.
- 8cm<sup>3</sup> of liquid J
- A spatula
- One 10ml measuring cylinder
- A white tile
- One boiling tube
- Six test-tubes
- 400cm<sup>3</sup> distilled water
- About 0.3g of sodium hydrogen carbonate
- A stop watch
- 2cm<sup>3</sup> – ethanol

*This paper consists of 2 printed pages*

*Turn Over*

**Accept to:**

- Phenolphthalein indicator
- 2M sodium hydroxide
- 2M sulphuric (VI) acid
- 2M lead (II) nitrate
- A Bunsen burner
- Bromine water
- Acidified potassium dichromate (VI)

**NOTES :**

- Solution F is prepared by dissolving 28g of solid sodium hydroxide into 600cm<sup>3</sup> of distilled water and diluting to one litre of solution
- Solution G is prepared by dissolving 54cm<sup>3</sup> of conc. Sulphuric (VI) acid density 1.84g / cm<sup>3</sup> in about 600cm<sup>3</sup> of distilled water and diluting to one litre of solution.
- Bromine water is prepared by diluting 10ml of liquid bromine with 100cm<sup>3</sup> of distilled water in a fume cupboard.
- Potassium dichromate (VI) is prepared by dissolving 5.0g of solid potassium dichromate (VI) in 500cm<sup>3</sup> of 1.0M sulphuric (VI) acid and diluting to one litre of solution using distilled water.
- Solid E is magnesium ribbon which should be exactly 6cm or an equivalent of 0.15g.
- Liquid J is ethanoic acid
- 2cm<sup>3</sup> – ethanol
- Solid K is magnesium chloride that should be completely sealed from moisture.

**232/3**  
**PHYSICS**  
**PAPER 3**  
**PRACTICAL**  
**JULY 2011**

**KIBWEZI SECONDARY SCHOOLS EXAMINATION**  
**PHYSICS**  
**PAPER 3**

**CONFIDENTIAL**

*Candidates should be provided with the following apparatus.*

**Question 1**

**PART 1**

- Voltmeter
- Ammeter
- Six connecting wires
- Three (3) crocodile clips
- One dry cell
- One meter long nichrome wire mounted
- One millimeter scale (swa 32 )
- Meter rule of  $\frac{1}{2}$  meter rule.

**PART II**

- A glass block
- A plane mirror
- 4 optical pins
- A soft board
- Cello tape
- 30 cm ruler
- A protractor
- 4 office pins

**Question 2**

- A meter rule
- Retort stand, clamp and Boss
- A 100g mass
- A 50g mass
- Three (3) pieces of thread
- 200ml beaker
- Water

**231/3  
BIOLOGY  
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BIOLOGY  
PAPER 3**

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*Provide each student with:*

- Iodine solution
- Benedicts solution
- DCPIP
- Source of heat
- 1 ripe orange labelled “K”
- A white tile
- Scalpel blade
- 3 clean test-tubes
- A test-tube holder

**2312/1  
GEOGRAPHY  
PAPER 1  
JULY 2011**

**KIBWEZI SECONDARY SCHOOLS EXAMINATION  
GEOGRAPHY  
PAPER 1**

**CONFIDENTIAL INSTRUCTIONS**

Geography teachers are advised to look for Homa Bay Topographical map ( 1 : 50,000 ) sheet 129/2

- Geography teacher who cannot get the above mentioned topographical map to set questions in the following areas.

6. (a) (i) Locating a feature using given six (6) grid reference. ( 1 mark )  
(ii) Two methods of representing relief on the map used. ( 2 marks )  
(iii) Measuring distance of a road in km. ( 2 marks )
- (b) (i) - To draw a cross section ( 3 marks )  
- On the cross section mark and name four features. ( 2 mark )
- (ii) Calculation of vertical exaggeration of the cross-section. ( 2 marks )
- (c) Sources of water giving evidence from the map. ( 6 marks )
- (d) Describe the relief of the area represented by the map. (3 marks )
- (e) Two economic activities citing evidence. ( 4 marks )

# KIBWEZI SEC. SCHOOLS EXAMS

## FORM 4 JOINT EXAMS – 2011

Kindly fill the packing list below so as to facilitate the administration of the Form 4 joint exams for this year.

S.N	SUBJECT	CODE	NO. OF STUDENTS
1.	ENGLISH	101	
2.	KISWAHILI	102	
3.	MATHEMATICAL	121	
4.	BIOLOGY	231	
5.	PHYSICS	232	
6.	CHEMISTRY	233	
7.	HISTORY	311	
8.	GEOGRAPHY	312	
9.	C.R.E	313	
10.	AGRICULTURE	443	
11	BUSINESS STUDIES	564	

The cost remains Kshs. 350/= ( Three hundred and fifty only ) per student.  
Cheques should be addressed to Kibwezi Sec. School Exams (K.S.S.E)

I hereby confirm that the above information is correct

Name of school : .....

Name of school .....

Name of Principal : ..... Signature .....

Date : ..... Official Stamp : .....