

**MARK SCHEME for the October/November 2007 question paper**

**0652 PHYSICAL SCIENCE**

**0652/05**

Paper 5 (Practical Test), maximum raw mark 30

This mark scheme is published as an aid to teachers and candidates, to indicate the requirements of the examination. It shows the basis on which Examiners were instructed to award marks. It does not indicate the details of the discussions that took place at an Examiners' meeting before marking began.

All Examiners are instructed that alternative correct answers and unexpected approaches in candidates' scripts must be given marks that fairly reflect the relevant knowledge and skills demonstrated.

Mark schemes must be read in conjunction with the question papers and the report on the examination.

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Page 2	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2007	0652	05

1 (a) stating the value of resistance/m should be the same as the supervisor [1]

(b)&(c) 5 values of  $y$  and  $I$

good range of  $y$  to include 85 or more [3]

(d) (i)  $R$  is correctly calculated

current decreases with increasing  $y$  do not allow if  $I$  greater than 1.0 [1]

(ii)  $IR$  is calculated correctly

2 places of decimals used [2]

(e) Graph

A axes labelled

S sensible scale used

P plotting correct allow one error

C smooth curve drawn

Origin included [5]

(f) correctly read from graph must be on graph [1]

(g) explanation needs to say that current would be greater

similar curve but above experimental one [2]

**[Total: 15]**

Page 3	Mark Scheme	Syllabus	Paper
	IGCSE – October/November 2007	0652	05

2 Chemistry question

(a) X is colourless/no change/cloudy/stayed the same NOT clear  
 Y is pink  
 Z is pink  
 all need to be correct [1]

X is an acid  
 Y is an alkali  
 Z is an alkali  
 each incorrect lose a mark to zero [2]

(b) test correctly described TWO marks acidifying not necessary

acid is hydrochloric ONE

test can be for sulphate showing negative therefore must be chloride  
 it must be clear that the candidate has carried out the experiment  
 if in doubt, maximum of two marks [3]

(c) (i) pink colour disappears/colourless [1]

(ii) pink colour disappears/colourless

effervescence  
 do not allow clear as equal to colourless [2]

(d) (i) white precipitate

dissolves in excess [2]

(ii) white precipitate

precipitate does not dissolve [2]

(e) Y could be sodium hydroxide

Z could be sodium carbonate

a formula is allowed if it is correct [2]

**[Total: 15]**