

MARK SCHEME for the October/November 2007 question paper

0652 PHYSICAL SCIENCE

0652/05

Paper 5 (Practical Test), maximum raw mark 30

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

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2 Chemistry question

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

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

(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]