

Name of the Student: _____

Max. Marks : 19 Marks

Time : 19 Minutes

Mark Schemes

Q1.

(a) Q is calcium or magnesium

1

bromide

1

R is aluminium

1

chloride

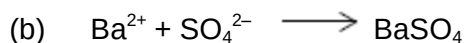
1

S is iron(III)

1

sulfate

1

Mark this question independently

1



1



1



1

[10]

Q2.

- (a) Ethoxyethane is flammable
Accept "to avoid igniting ethoxyethane vapour".
1
- (b) Ethoxyethane (vapour) forms a protective layer
Water and ethoxyethane are immiscible.
Do not allow 'ethoxyethane is dense' without further qualification.
1
- (c) Acidified potassium dichromate(VI)/ $K_2Cr_2O_7$ **M1**
*If incomplete, lose **M1** but mark on. If incorrect CE = 0/3.*
Accept acidified sodium dichromate / $Na_2Cr_2O_7$
1
- Observation with 2-methylpropan-2-ol – no colour change **M2**
Accept "stays orange".
1
- Observation with 2-methylpropan-1-ol – (orange to) green **M3**
Accept chemically correct alternatives.
1
- (d) i. (Acidified) silver nitrate (solution)
Allow a chemically correct alternative reagent.
1
- ii. Cream / off-white precipitate
Allow this alternative with correct observation.
1
- Dilute ammonia solution **OR** Conc ammonia solution
Allow this alternative with correct confirmatory reagent or procedure.
1
- some ppt dissolves or ppt dissolves
Allow this alternative with correct confirmatory result.
*Do not allow full marks for alternatives without **both** a test and a confirmation.*
1

[9]