



Rewarding Learning

**ADVANCED SUBSIDIARY (AS)
General Certificate of Education
2019**

Chemistry

Assessment Unit AS 3

assessing

Module 3: Practical Examination

Practical Booklet A

[SCH31]

WEDNESDAY 1 MAY, MORNING

**MARK
SCHEME**

W is sodium hydrogencarbonate.

- | | | |
|------------------|--|-----|
| 1 (a) (i) | bulb does not light up | [1] |
| (ii) | bulb lights up [1]
fizzing at both electrodes [1]
faster/more bubbling at (negative) electrode [1] | [3] |
| (iii) | non-conductor when solid and conducts when dissolved in water
[-1] for any omitted | [1] |
| (b) (i) | colourless liquid formed | [1] |
| (ii) | (gas produced) which turns limewater cloudy | [1] |
| (c) (i) | green/blue/green-blue/blue-green solid/precipitate formed [1]
effervescence [1] | [2] |
| (ii) | flame extinguished | [1] |
| (d) (i) | effervescence [1]
(green) residue disappears/(green) solution formed [1] | [2] |
| (ii) | white precipitate is formed | [1] |
| (iii) | white precipitate formed | [1] |
| (iv) | yellow/orange flame | [1] |

AVAILABLE
MARKS

15

X is ethanoic acid, Y is deionised water, Z is hexane.

- 2 (a)** effervescence and colourless solution formed with X [1]
colourless solution formed with Y [1] [2]
- (b) (i)** Any **two** from:
calcium sinks and then rises to surface
calcium disappears
fizzing/effervescence
heat evolved
(2 x [1]) [2]
- (ii)** X forms a colourless solution while Y forms a cloudy solution [1]
- (c) (i)** one layer formed with liquid Y and two layers with liquid Z/with Z forming upper layer [1]
- (ii)** Y (one layer that is) yellow/brown/orange [1]
Z forms two layers: upper layer is purple/violet and lower layer is yellow/brown/orange [1] [2]
- (iii)** Z is immiscible with water [1]
Z does not react with iodine [1] [2]

Total

**AVAILABLE
MARKS**

10

25