#### END TERM 1-2022

#### CHEMISTRY PAPER 2 (233/2)

## FORM FOUR (4)

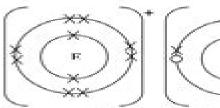
#### TIME: 2 HOURS

## MARKING SCHEME

 $(1 \, \text{mk})$ 

- 1. 1 (a) Alkaline-earth metals
  - (b) B
  - (c) (i) A2B3 (3/2mk)
- (1mk) (ii) H<sub>2</sub>SO<sub>4</sub> (½mk)

(d)



Distribution of electrons (1mk) and charges (1mk)

No label (0mk)

(e) D has a smaller atomic size than C//C has larger atomic size than D (1mk)

D has more protons than C//D has stronger nuclear charge than C (1mk)

(f) H (½mk). Loses electrons most readily/largest atomic radius/weakest nuclear charge (explanation ½mk)

(g) 2A(s) + 6HCl(aq) → 2ACl3(aq) + 3H2(g) 1mk

Moles of A = 
$$\frac{0.081}{27}$$
 = 0.003moles ½mk

Mole ratio 1:3

Moles of HCl = 0.003x3 = 0.009 moles  $\frac{1}{2}$ mk

$$\frac{0.009 \times 1000}{20}$$
 ½mk = 0.45M ½mk

(h) The melting point increase with increase in atomic number. 1mk

This is due to increase in the strength of van der waal's forces (inter-molecular forces) 1mk

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**Ying-Ying Zheng** 

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