



Confidential

MARK SCHEME

{6888/01}

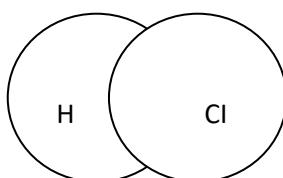
MARKS: 40

1 (a) sublimation; A - Deposition
A - Desublimation [1]

(b) liquid particles can move from place to place while solid particles are in fixed positions; [1]

2 time taken (by bob);
A – time taken by pendulum / mass / stone [1]
to swing from **B** (through **C**) to **D** and back to **B**; [1]

3 sharing one pair of electrons; [1]
stable atoms; [1]
- wrong / no symbol(s) – earns 1 mark



4

E

F

E-towards base; A - x on base but not touching outs curve [1]

F-at the centre; [1]

5 carbon -12 has 6 neutrons and carbon -14 has 8 neutrons; (reject different mass numbers and different number of neutrons) [1]

6 stay magnetised; [1]
magnetic force / field passes through the paper; [1]

7 (a) chlorine (gas); [1]

(b) chloride ion or copper(II) ion; [1]

(c) carbon is inert; [1]

8 Fig. 8.2; [1]

bulb receives maximum voltage; [1]

9 reversible / no new substance formed; [1]

10 attract; [1]

discs receive opposite charges; [1]

11 $\text{Al}_2(\text{CO}_3)_3$; [1]

12 $P = \frac{V^2}{R}$ or $\frac{1.5^2}{2}$; [1]

= 1.13 W; [1]

13 (a) aircraft fuel; [1]

(b) carbon monoxide; [1]

water; [1]

14 (a) to allow fine particles settle at the bottom; [1]

(b) (i) calcium / magnesium hydrogen carbonate; [1]

(ii) boiling / distillation; [1]

15 $2 \text{ V/ div} \times 2 \text{ div}$; [1]

$4 \underline{\text{V}}$; [1]

16 ${}^A_Z X \rightarrow {}^A_{Z+1} X + {}^0_{-1} e$ OR ${}^A_Z X \rightarrow {}^A_{Z+1} X + {}^0_{-1} \beta$

- daughter nuclide; [1]
- beta symbol / electron symbol; [1]
- 17 hydrogen (ion) / proton; [1]
- 18 chemical; [1]
- light / sound; **A-** heat / kinetic / gravitational potential energy; [1]
- 19 coke / carbon; [1]
- 20 glass is a poor conductor of heat / glass is brittle; [1]
the inside expands while the outside stays the same; [1]
- 21 magnesium loses two electrons; [1]
to form magnesium ion; [1]