1 | States of Matter

1) Define melting point. (1)

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2) Discuss the factors that may influence the melting point of a substance.

(3)

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3)

a) Suppose a sample of Calcium has a melting point of 842°C and a boiling point of a 1484°C. Which of the following temperatures would it be most likely for it to have its particles vibrating faster but a solid for the present sample?

(1)

A) 841°C
B) 843°C
C) 129°C
D) 1483°C

b) Explain why you believe so? (2)

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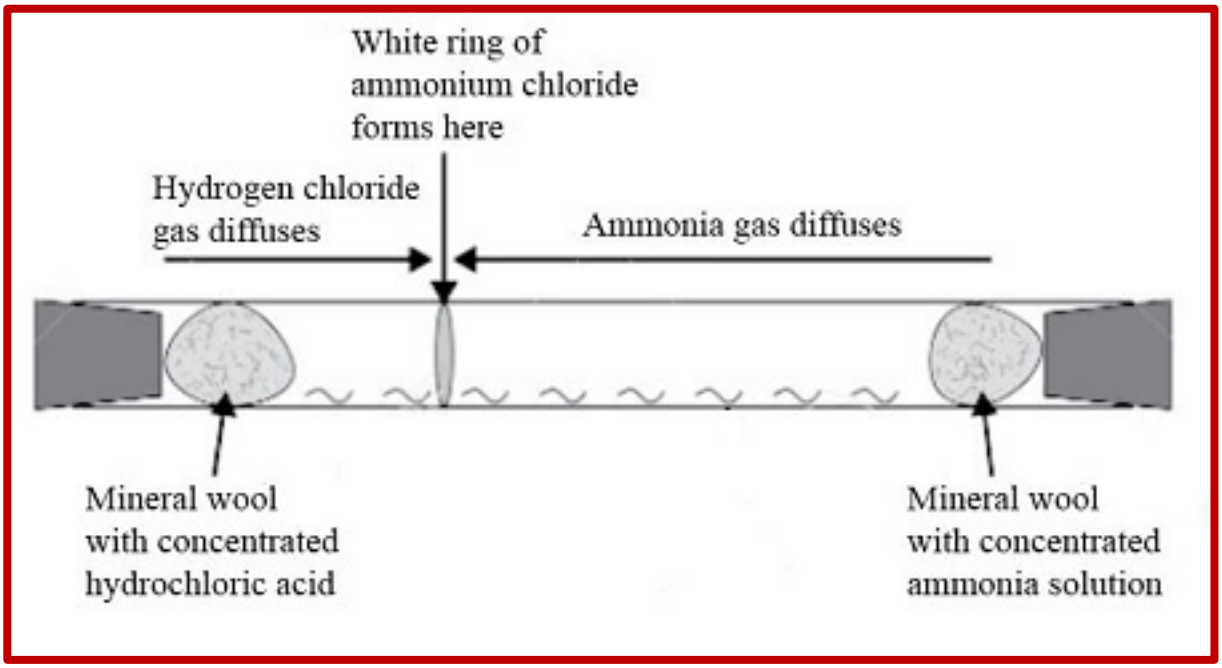
4) The following apparatus is set up in this direction.



a) Explain why rubber bungs are used in this apparatus?

(2)

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b) Explain why the white ring of ammonium chloride is formed nearer to the hydrogen chloride?

(2)

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c) How can we speed up this process?

(2)

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5) Describe the interconversion between a solid to a liquid. (3)

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6) Which of the following best describes deposition? (1)

A) Solid to gas
B) Gas to solid
C) Solid to liquid
D) Liquid to solid

7) Stefan wants to do the following experiment.

To test whether the change in temperature affects the rate of melting in samples of .

Devise up a suitable test to show this.

(3)

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Total – 20 marks