

.....
..... (3)
b) Silicon has a very high melting temperature.

.....
.....
..... (3)

c) Sulphur has a higher melting temperature than phosphorus.

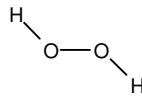
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..... (4)

d) Argon has the lowest melting temperature in Period 3.

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..... (2)

(Ch01 Summer 1998)

4) a) The diagram below shows a hydrogen peroxide molecule.



- i) Draw the lone pairs, in appropriate positions, on the oxygen atoms.
 - ii) Indicate on your diagram the magnitude of one of the bond angles.
 - iii) Name the strongest type of intermolecular force which exists between molecules of hydrogen peroxide in the pure liquid.
- (4)

b) Draw a diagram to illustrate the shape of a molecule of SF₄ and predict the bond angle(s).

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.....
..... (4)

d) Name two types of intermolecular force which exist between molecules in liquid SF₄.

.....
..... (2)

(Ch01 Winter 2000)

Total = (38) Grade =