

Chemical Bonding

SECTION 3

SHORT ANSWER Answer the following questions in the space provided.

1. A The notation for sodium chloride, NaCl, stands for one
(a) formula unit. (c) crystal.
(b) molecule. (d) atom.
2. D In a crystal of an ionic compound, each cation is surrounded by a number of
(a) molecules. (c) dipoles.
(b) positive ions. (d) negative ions.
3. B Compared with the neutral atoms involved in the formation of an ionic compound, the crystal lattice that results is
(a) higher in potential energy. (c) equal in potential energy.
(b) lower in potential energy. (d) unstable.
4. B The lattice energy of compound A is greater in magnitude than that of compound B. What can be concluded from this fact?
(a) Compound A is not an ionic compound.
(b) It will be more difficult to break the bonds in compound A than those in compound B.
(c) Compound B has larger crystals than compound A.
(d) Compound A has larger crystals than compound B.
5. B The forces of attraction between molecules in a molecular compound are generally
(a) stronger than the attractive forces among formula units in ionic bonding.
(b) weaker than the attractive forces among formula units in ionic bonding.
(c) approximately equal to the attractive forces among formula units in ionic bonding.
(d) equal to zero.
6. Describe the force that holds two ions together in an ionic bond.

Very strong overall attraction between positive and negative charges

7. What type of energy best represents the strength of an ionic bond?

Lattice energy

8. What types of bonds are present in an ionic compound that contains a polyatomic ion?

Section 3 1 Chemistry Answers

IM Harris

Section 3 1 Chemistry Answers:

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GCSE Additional Science Higher Hannah Kingston,2006-09 Covers the 2006 Gateway Additional Science specification for all exam boards AQA Edexcel and OCR for students going on to study Additional Science Part of the Success series this title emphasises the shift from fact learning to investigating and understanding how science works

Timetable

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Journal of General Chemistry of the U.S.S.R. in English Translation,1991 **The Physical Chemistry of Electrolytic Solutions** Herbert Spencer Harned,Benton Brooks Owen,1943

Catalogue of the Trustees, Officers, and Students, of the University ... and of the Grammar and Charity Schools ... University of Pennsylvania,1882 **North Central Association Quarterly**,1927 The official organ of the North Central Association of Colleges and Schools called earlier North Central Association of Colleges and Secondary Schools

Proceedings of the American Chemical Society American Chemical Society,1904 **Proceedings of the American Chemical Society**,1906 **Chemical Engineering Catalog**,1919 **Western Hospital and Nurses Review**,1928

Psychological Monographs,1918 Includes music **The Photographic News** William Crookes,George Wharton Simpson,1908 **The Education Gazette of the Province of the Cape of Good Hope** Cape of Good Hope (South Africa). Education Department,1920 **Journal of Chemical Education**,1929 **Collier's**,1913 **Journal of the Society of Chemical Industry** Society of Chemical Industry (Great Britain),1926

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