

Hwa Chong Institution
Chemical bonding (Worksheet 5)
Covalent bonding

Name: _____ ()

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1. Draw the dot-and-cross diagrams for the following molecules:

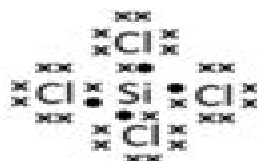
a) NH_3



b) CO_2



c) SiCl_4



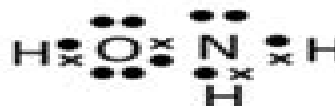
d) CH_3I



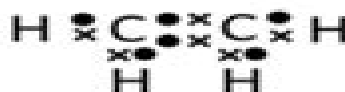
e) H_2O_2



f) NH_2OH



g) $\text{H}_2\text{C}=\text{CH}_2$



h) PCl_3



Section 9 The Covalent Bond Answers

Padhraic Smyth



Section 9 The Covalent Bond Answers:

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relevance of the material they are learning This edition continues the end of chapter Student Workshop activities to cater to the many different learning styles and to engage users in the practical aspect of the material discussed in the chapter

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with answers and explanations **Organometallic Chemistry** Hiroshi Nakazawa, Julian Koe, 2021-07-09 Designed for teaching this English translation of the tried and tested Organometallic Chemistry 2 e textbook from the Japan Society of Coordination Chemistry can be used as an introductory text for chemistry undergraduates and also provide a bridge to more advanced courses The book is split into two parts the first acts as a concise introduction to the field explaining fundamental organometallic chemistry The latter covers cutting edge theories and applications suitable for further study Beginning with fundamental reaction patterns concerning bonds between transition metals and carbon atoms the authors show how these may be combined to achieve a desired reaction and or construct a catalytic cycle To understand the basics and make effective use of the knowledge numerous practice questions and model answers to encourage the reader s deeper understanding are included The advanced section covers the chemistry relating to bonds between transition metals and main group elements such as Si N P O and S is described This chemistry has some similarities to transition metal carbon chemistry but also many differences and unique aspects which the book explains clearly Organometallic complexes are now well known and widely used In addition transition metal complexes with main group element other than carbon as a ligating atom are becoming more important It is thus important to have a bird s eye view of transition metal complexes regardless of the ligand type This book acts as solid introduction for chemistry students and newcomers in various fields who need to deal with transition metal complexes 23 years AIIMS Chapter-wise Solved Papers (1997-2019) 13th Edition Disha Experts, 2019-07-02 AIIMS 23 years Chapter wise Solved Papers consists of past years memory based solved papers from 1997 onwards till date distributed in 29 31 38 6 topics in Physics Chemistry Biology General Knowledge respectively The book contains around 4580 straight MCQs 3200 MCQs and 1380 Assertion Reason type questions **22 years AIIMS Chapter-wise Solved Papers (1997-2018) 12th Edition** Disha Experts, AIIMS 22 years Chapter wise Solved Papers consists of past years memory based solved papers from 1997 onwards till date distributed in 29 31 38 6 topics in Physics Chemistry Biology General Knowledge respectively The book contains around 4380 straight MCQs 3060 MCQs and 1320 Assertion Reason type questions

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