

Chapter 4: Supramolecular Problems - Answers

1. Assign the oxidation number to each atom in the following elements, molecules and ionic substances:

- a) CO_2 b) CH_4 c) HNO_3 d) Ca(OH)_2 e) H_2SO_4 f) Ag
 $\text{C} = +4$ $\text{C} = -4$ $\text{N} = +5$ $\text{Ca} = +2$ $\text{S} = +6$ $\text{Ag} = 0$
 $\text{O} = -2$ $\text{H} = +1$ $\text{O} = -2$ $\text{O} = -2$ $\text{O} = -2$ $\text{Ag} = 0$
- g) Fe h) BaCl_2 i) CO_2 j) H_2O k) HNO_3 l) Fe
 $\text{Fe} = 0$ $\text{Ba} = +2$ $\text{C} = +4$ $\text{H} = +1$ $\text{N} = +5$ $\text{Fe} = 0$
 $\text{Cl} = -1$ $\text{O} = -2$ $\text{O} = -2$ $\text{O} = -2$ $\text{O} = -2$ $\text{Fe} = 0$

2. Assign the oxidation number to each atom in the following ions:

- a) NO^+ b) CO_3^{2-} c) HNO_2 d) SO_4^{2-} e) PO_4^{3-} f) HCO_3^-
 $\text{N} = +2$ $\text{C} = +3$ $\text{N} = +3$ $\text{S} = +6$ $\text{P} = +5$ $\text{C} = +3$
 $\text{O} = -2$ $\text{O} = -2$ $\text{O} = -2$ $\text{O} = -2$ $\text{O} = -2$ $\text{O} = -2$

3. For the following reactions identify if it is an oxidation-reduction reaction. If it is a redox reaction identify the oxidizing agent, the reducing agent, the substance being oxidized and the substance being reduced. Identify the oxidation number change to help to support these observations:



Redox rxn. Ca oxidized (oxidizing agent). Ca is #0 $\longrightarrow$ +2
 HCl reduced (red. reducing agent). H is #1 $\longrightarrow$ 0.



Not a redox rxn. Ca is #2 in both reactant and product.



Redox rxn. H_2 oxidized (oxid. reducing agent). H is #0 $\longrightarrow$ +1
 O_2 reduced (red. reducing agent). O is #0 $\longrightarrow$ -2.



Not a redox reaction. No change in ox. #.



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Pharmaceutical Chemistry Chris Rostron, Jill Barber, 2021 Taking

medication is a common occurrence for many people whether it is to soothe an aching head regulate blood sugars or to treat life threatening conditions In the UK alone over 900 million prescriptions are dispensed every year Overseeing all of this are pharmacists experts in medicines and their use Pharmaceutical Chemistry provides a wide ranging overview of organic chemistry as applied to the study and practice of pharmacy Drugs are simply chemicals so to fully understand their manufacture formulation and the way they work in our bodies a knowledge of organic compounds and their reactions is essential By reading this book students will begin to understand how a drug molecule is made the process that turns it into a medicine the role the pharmacist has when dispensing that medicine and what happens in the body when it is taken Most importantly the text shows how each of these aspects are integrated helping you to see the bigger picture Pharmaceutical Chemistry is available for students and institutions to purchase in a variety of formats and is supported by online resources The ebook offers a mobile experience and convenient access www.oxfordtextbooks.co.uk/ebooks The online resources include For students Self assessment questions to help the reader to check and reinforce understanding of the material introduced in each chapter Bonus material to accompany chapters 3 7 and 11 Answers to self check questions from the book For registered adopters of the book Figures from the book available to download

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