## F321 Revision of definitions to be learnt for exam



|                             | COLLEGE  |
|-----------------------------|--|
| Isotopes                    | Atoms of the same element with different numbers of neutrons and different masses:   |
| Relative atomic mass, Ar    | The weighted mean mass of an atom of an element compared with one-twelfth of the mass of an atom of                          |
| Relative isotopic mass      | The mass of an atom of an isotope compared with one-twelfth of the mass of an atom of carbon-12.                             |
| Relative formula mass       | The relative formula mass of a compound is equal to the sum of the individual relative atomic masses.                        |
| Relative molecular mass, Mr | The weighted mean mass of a molecule compared with one-twelfth of the mass of an atom of carbon-12.                          |
| Mole                        | The amount of any substance containing as many particles as there are carbon atoms in exactly 12 g of the carbon-12 isotope. |
| Molecular formula           | The number of atoms of each element in a molecule.   |
| Empirical formula           | The simplest whole-number ratio of atoms of each element present in a compound.  |
| Acid                        | A species that is a proton donor.  |
| Base                        | A species that is a proton acceptor.   |
| Concentrated Solution       | Solutions containing a higher number of moles of solute in a given volume of solution  |
| Dilute Solution             | Solutions containing a fewer number of moles of solute in a given volume of solution   |
| Hydrated                    | Salt containing water molecules known as "water of<br>crystallisation"   |
| Anhydrous                   | A substance that contains no water of crystallisation  |
| Oxidation                   | Loss of electrons, or an increase in oxidation number.   |
| Reduction                   | Gain of electrons, or a decrease in oxidation number.  |
| Redox reaction              | A reaction in which both reduction and oxidation take place.   |
| (First) ionisation energy   | The energy required to remove one electron from each atom in one mole of gaseous atoms to form one mole of gaseous 1+ ions.  |
| (Second) ionisation energy  | The energy required to remove one electron from each ion in one mole of gaseous 1+ ions to form one mole of gaseous 2+ ions. |

# Ocr Chemistry F321 January 2013 Question Paper

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#### Table of Contents Ocr Chemistry F321 January 2013 Question Paper

- 1. Understanding the eBook Ocr Chemistry F321 January 2013 Question Paper
  - The Rise of Digital Reading Ocr Chemistry F321 January 2013 Question Paper
  - Advantages of eBooks Over Traditional Books
- 2. Identifying Ocr Chemistry F321 January 2013 Question Paper
  - Exploring Different Genres
  - Considering Fiction vs. Non-Fiction
  - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
  - Popular eBook Platforms
  - Features to Look for in an Ocr Chemistry F321 January 2013 Question Paper
  - User-Friendly Interface
- 4. Exploring eBook Recommendations from Ocr Chemistry F321 January 2013 Question Paper
  - Personalized Recommendations
  - ∘ Ocr Chemistry F321 January 2013 Question Paper User Reviews and Ratings
  - o Ocr Chemistry F321 January 2013 Question Paper and Bestseller Lists
- 5. Accessing Ocr Chemistry F321 January 2013 Question Paper Free and Paid eBooks
  - o Ocr Chemistry F321 January 2013 Question Paper Public Domain eBooks
  - o Ocr Chemistry F321 January 2013 Question Paper eBook Subscription Services
  - o Ocr Chemistry F321 January 2013 Question Paper Budget-Friendly Options

- 6. Navigating Ocr Chemistry F321 January 2013 Question Paper eBook Formats
  - o ePub, PDF, MOBI, and More
  - Ocr Chemistry F321 January 2013 Question Paper Compatibility with Devices
  - o Ocr Chemistry F321 January 2013 Question Paper Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - o Adjustable Fonts and Text Sizes of Ocr Chemistry F321 January 2013 Question Paper
  - o Highlighting and Note-Taking Ocr Chemistry F321 January 2013 Question Paper
  - o Interactive Elements Ocr Chemistry F321 January 2013 Question Paper
- 8. Staying Engaged with Ocr Chemistry F321 January 2013 Question Paper
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ocr Chemistry F321 January 2013 Question Paper
- 9. Balancing eBooks and Physical Books Ocr Chemistry F321 January 2013 Question Paper
  - Benefits of a Digital Library
  - o Creating a Diverse Reading Collection Ocr Chemistry F321 January 2013 Question Paper
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ocr Chemistry F321 January 2013 Question Paper
  - Setting Reading Goals Ocr Chemistry F321 January 2013 Question Paper
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ocr Chemistry F321 January 2013 Question Paper
  - Fact-Checking eBook Content of Ocr Chemistry F321 January 2013 Question Paper
  - Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
  - Utilizing eBooks for Skill Development
  - Exploring Educational eBooks
- 14. Embracing eBook Trends
  - Integration of Multimedia Elements

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