


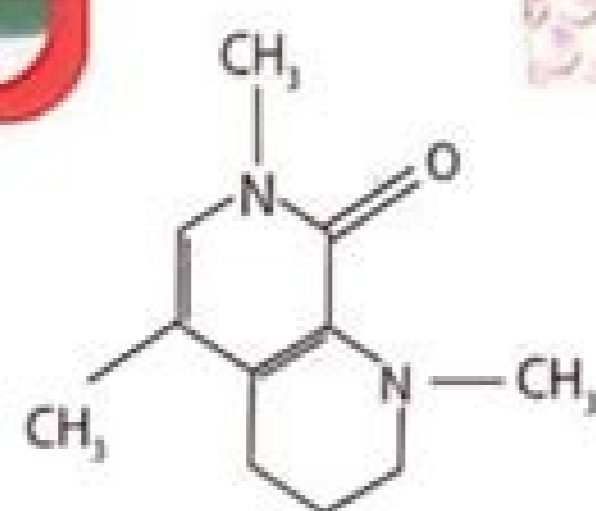
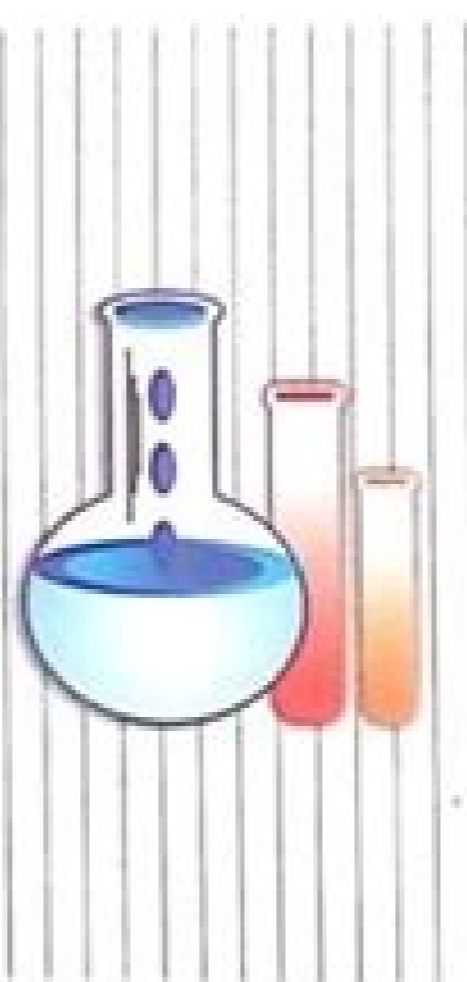
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PRACTICAL CHEMISTRY



CLASS XI

Vedantu
LIVE ONLINE TUTORING

PART B – CHEMISTRY

1. The appearance of colour in solid alkali metal halides is generally due to :
(1) Frenkel defect
(2) F-centres
(3) Schottky defect
(4) Interstitial position

Ans. (2)

2. Complete reduction of benzene-diazonium chloride with Zn/HCl gives :
(1) Aniline (2) Phenylhydrazine
(3) Hydrazobenzene (4) Azobenzene

Ans. (2)

3. Which of the following statements about Na_2O_2 is **not** correct ?
(1) Na_2O_2 oxidises Cr^{3+} to CrO_4^{2-} in acid medium
(2) It is diamagnetic in nature
(3) It is the super oxide of sodium
(4) It is a derivative of H_2O_2

Ans. (3)

Sol. Na_2O_2 is a peroxide O_2^{2-} which is occupied all paired electrons with π^*2p_x & π^*2p_y .

4. In allene (C_3H_4), the type(s) of hybridization of the carbon atoms is (are):
(1) only sp^2 (2) sp^2 and sp
(3) sp and sp^3 (4) sp^2 and sp^3

Ans. (2)

5. In the reaction of formation of sulphur trioxide by contact process $2\text{SO}_2 + \text{O}_2 \rightleftharpoons 2\text{SO}_3$, the rate of reaction was measured as $\frac{d[\text{O}_2]}{dt} = -2.5 \times 10^{-4} \text{ mol L}^{-1} \text{ s}^{-1}$. The rate of reaction in terms of $[\text{SO}_2]$ in $\text{mol L}^{-1} \text{ s}^{-1}$ will be
(1) -2.50×10^{-4} (2) -5.00×10^{-4}
(3) -1.25×10^{-4} (4) -3.75×10^{-4}

Ans. (2)

$$\text{Sol. } \frac{1}{2} \frac{d}{dt} [\text{SO}_2] = -\frac{d}{dt} [\text{O}_2]$$

$$\Rightarrow \frac{d}{dt} [\text{SO}_2] = -2 \times 2.5 \times 10^{-4}$$

$$= -5 \times 10^{-4}$$

6. Based on the equation

$$\Delta E = -2.0 \times 10^{-18} \text{ J} \left(\frac{1}{n_2^2} - \frac{1}{n_1^2} \right)$$

the wavelength of the light that must be absorbed to excite hydrogen electron from level $n = 1$ to level $n = 2$ will be (h = $6.625 \times 10^{-34} \text{ Js}$, $c = 3 \times 10^8 \text{ ms}^{-1}$)

- (1) $2.650 \times 10^{-7} \text{ m}$
(2) $1.325 \times 10^{-7} \text{ m}$
(3) $1.325 \times 10^{-10} \text{ m}$
(4) $5.300 \times 10^{-10} \text{ m}$

Ans. (2)

$$\text{Sol. } \frac{1}{\lambda} = \frac{2 \times 10^{-18} \text{ J} \left(\frac{1}{1^2} - \frac{1}{2^2} \right)}{hc}$$

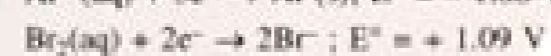
$$\Rightarrow \frac{1}{\lambda} = \frac{2 \times 10^{-18} \times \frac{3}{4}}{6.625 \times 10^{-34} \times 3 \times 10^8 \times 4}$$

$$\Rightarrow \lambda = \frac{2 \times 6.625 \times 10^{-34} \times 10^9}{10^{-18}}$$

$$= 13.25 \times 10^{-8}$$

$$= 1.325 \times 10^{-7} \text{ m}$$

7. Given :-



Considering the electrode potentials, which of the following represents the correct order of reducing power?

- (1) $\text{Al} < \text{Fe}^{2+} < \text{Br}^-$ (2) $\text{Al} < \text{Br}^- < \text{Fe}^{2+}$
(3) $\text{Fe}^{2+} < \text{Al} < \text{Br}^-$ (4) $\text{Br}^- < \text{Fe}^{2+} < \text{Al}$

Ans. (4)

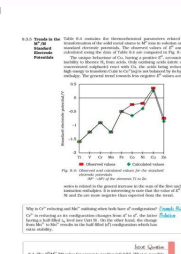
8. Consider the following equilibrium



White precipitate of AgCl appears on adding which of the following?

- (1) NH_3 (2) Aqueous NaCl
(3) Aqueous NH_4Cl (4) Aqueous HNO_3

Ans. (2)



history, and the need to understand the collective behaviour or attitudes of groups of people.

Bloch's *Feudal Society* is about European, particularly French, society between 900 and 1300, describing in remarkable detail social relations and hierarchies, land management and the popular culture of the period.

His career was cut short tragically when he was shot by the Nazis in the Second World War.

An Introduction to Feudalism

The term 'feudalism' has been used by historians to describe the economic, legal, political and social relationships that existed in Europe in the medieval era. Derived from the German word 'feud', which

The term 'medieval era' refers to the period in European history between the fifth and the fifteenth centuries.



MAP 1: Western Europe

92 THEMES IN WORLD HISTORY

Islamic civilisation flourished as the number of cities grew phenomenally. Many new cities were founded, mainly to settle Arab soldiers (*jund*) who formed the backbone of the local administration. Among this class of garrison-cities, called *misr* (the Arabic name for Egypt), were Kufa and Basra in Iraq, and Fustat and Cairo in Egypt. Within half a century of its establishment as the capital of the Abbasid caliphate (800), the population of Baghdad had reached around 1 million. Alongside these cities were older towns such as Damascus, Isfahan and Samarkand, which received a new lease of life. Their size and population surged, supported by an expansion in the production of foodgrains and raw materials such as cotton and sugar for urban manufactures. A vast urban network developed, linking one town with another and forming a circuit.

At the heart of the city were two building complexes radiating cultural and economic power: the congregational mosque (*masjid al-jami*), big enough to be seen from a distance, and the central marketplace (*suaq*), with shops in a row, merchants' lodgings (*fanduc*) and the office of the money-changer. The cities were homes to administrators (*ayan* or eyes of the state), and scholars and merchants (*tuffar*) who lived close to the centre. Ordinary citizens and soldiers had their living quarters in the outer circle, each fitted with its own mosque, church or synagogue (Jewish temple), subsidiary market and public bath (*hammam*), an important meeting place. At the outskirts were the houses of the urban poor, a market for green vegetables and fruits brought from the countryside, caravan stations and 'unclean' shops, such as those dealing in tanning or butchering. Beyond the city walls were inns for people to rest when the city gates were shut and cemeteries. There were variations

on this typology depending on the nature of the landscape, political traditions and historical events.

Political unification and urban demand for foodstuffs and luxuries enlarged the circuit of exchange. Geography favoured the Muslim empire, which spread between the trading zones of the Indian Ocean and the Mediterranean. For five centuries, Arab and Iranian traders monopolised the maritime trade between China, India and Europe. This trade passed through two major routes, namely, the Red Sea and the Persian Gulf. High-value goods suitable for long-distance trade, such as spices, textile, porcelain and gunpowder, were shipped from India and China to the Red Sea ports of Aden and Aydhab and the Gulf ports of Siraf and Basra.

A boat sailing to Basra. The crew are Indian and the passengers Arab. The transport of goods and passengers by water was cheaper, quicker and safer in pre-modern times. Illustration from the *Maqamat* written by Hariri (twelfth-century manuscript). The *Maqamat* (Assemblies) were a genre of popular Arabic literature in which a narrator tells stories of a trickster and his escapades.



Chemistry Lab Manual Move to Top of the page. Move to Top of the page. Along with this, they are prepared in the form of heat, work, energy, intensive and extensive properties, and state functions. In this chemistry class 11 chapter 1, students will go in chapter that can help students to practice. There is a discussion about the first law of thermodynamics in this chapter. There are diagonal relationships like atomic radii, variation in terms of properties in ionization enthalpy, ionic radii, etc is also discussed. There are also some insights about the boiling point and melting points given in the chapter. The solutions available are in depth and in the simplest way possible. Furthermore, the information about the acid strength, ionization of polybasic acids, Henderson equation, the concept of pH, etc are also discussed. Because this subject demands to understand rather than just memorizing solutions of class 11 chemistry. Furthermore, the information about the trends in the periodic table for atoms like ionic radii, radii, inert gas radii, electronegativity, electron gain, valency, etc. Along with this, the Avogadro's number, empirical deviation in the gas equation, and the ideal equation required for the numerical are illustrated. Furthermore, the roles of gas laws are discussed and how Gay Lussac's law, Boyle's law, Avogadro's law, etc are helping students understand their ideal behavior. Chapter 4 Chemical Bonding and Molecular Structure This NCERT Chemistry class 11 chapter 4 will help you understand what a covalent bond and an ionic bond is. Furthermore, this chapter talks about alkanes, alkynes, and alkenes. NCERT Solutions for Class 11 Chemistry: For students who want to go the extra mile and understand more and more concepts, NCERT solutions are perfect for you. Class 11 Chemistry NCERT Solutions NCERT solutions for class 11 chemistry has all the solutions to the questions given in the textbook. Chapter 6 Chemical Thermodynamics This chemistry class 11 chapter 6 helps with the concepts of various systems and their different types. We will keep you updated on all exam related stuff on this website. There is also discussion provided about the surroundings in the form of heat, work, energy, intensive and extensive properties, and state functions. In this chemistry class 11 chapter 1, students will go in details about Dalton's atomic theory where the concepts of molecules and atoms are explained. There are also topics like Hund's rule and Pauli's exclusion principle which are also discussed in this chapter. Furthermore, information related to IUPAC nomenclature and classification of various organic compounds is also discussed in this chapter. Chapter 12 Organic Chemistry - Some Basic Techniques and Principles This chapter talks more about various purification methods along with quantitative and qualitative analysis being used for it. There are also some insights related to the law of mass action, the factors affecting equilibrium and the equilibrium constant as per Le Chatelier's principle. This chapter also describes details of Thomson's model along with its limitations. is more discussed in this chapter. Every first element in the group shows some anomalous behavior which is also discussed in this chapter. It also talks about related nomenclature, physical properties, IUPAC names, chemical reactions, combustion, isomerism, etc. They can download the Class 11 Chemistry NCERT Solutions, which they want to study with the comfort of their house. More Resources for CBSE Class 11 NCERT Solutions CBSE Chemistry Practical Class 11 Lab Manual There are more details about the parameters of the bonds, covalent bond and it's the polar character, the bond theory of valence, covalent bond and it's geometry, resonance, etc. Chapter 9 Hydrogen Through this chapter, you will learn about the occurrence of hydrogen and it's position in the periodic table. This final chapter in NCERT solutions for class 11 chemistry further discusses about ozone, acid rains and it's reactions. Chapter 7 Equilibrium This chemistry NCERT Solutions class 11 chapter 7 talks about the concepts of equilibrium in chemical and physical processes and details related to the equilibrium's dynamic nature. The chemical and physical properties of boron along with its important compounds like boric acid, borax, boron hydrides, etc are discussed in this chapter. Move to Top of the page. Here below we are providing you with the overview of all the chemistry class 11 chapters that are there in the NCERT textbook. This will help the students beyond examination marks. NCERT solutions for class 11 chemistry helps students cover all the topics in detail. How some of the important compounds like sodium chloride, sodium carbonate, sodium hydrogen carbonate, and sodium hydroxide are prepared is also discussed in this chapter. It involves the enthalpy and internal energy, specific heat, heat capacity, measurement of heat, etc. A total of 40 questions are there in CBSE Class 11 Chemistry NCERT Solutions for students to practice. They will also study what isotopes, isobars, atomic numbers, etc is. Thus, this chemistry class 11 NCERT solutions ensures that the students have the utmost understanding of the topic.

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