

3 may 2014 chemistry first year paper

Download Complete File

3 May 2014 Chemistry First Year Paper

The 3 May 2014 Chemistry First Year paper covered a wide range of topics from the first year chemistry curriculum. The paper consisted of three sections: Section A, Section B, and Section C.

Section A: Multiple Choice Questions

Section A contained 10 multiple choice questions worth 1 mark each. The questions covered topics such as atomic structure, chemical bonding, and the periodic table.

Section B: Short Answer Questions

Section B contained 5 short answer questions worth 2 marks each. The questions required students to demonstrate their understanding of concepts such as chemical reactions, stoichiometry, and gas laws.

Section C: Long Answer Questions

Section C contained 3 long answer questions worth 5 marks each. The questions required students to apply their knowledge of chemistry to solve problems and explain chemical phenomena.

Question 1:

Describe the structure of an atom, including the locations of electrons, protons, and neutrons.

Answer:

An atom consists of a central nucleus surrounded by electrons. The nucleus contains protons and neutrons. Protons are positively charged, while neutrons are uncharged. Electrons are negatively charged and orbit the nucleus in discrete energy levels.

Question 2:

Explain the concept of chemical bonding. Describe the different types of chemical bonds and give an example of each.

Answer:

Chemical bonding is the process by which atoms or ions are held together to form molecules or compounds. There are three main types of chemical bonds: covalent bonds, ionic bonds, and metallic bonds.

Question 3:

A sample of gas has a volume of 2.5 L at 298 K and 1 atm. What would be the volume of the gas at 373 K and 2 atm?

Answer:

Using the ideal gas law, $PV = nRT$, we can calculate the volume of the gas at the new conditions.

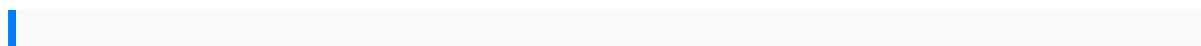
$$PV = nRT \quad V = (nRT)/P$$

For the given conditions:

$$V_1 = 2.5 \text{ L} \quad T_1 = 298 \text{ K} \quad P_1 = 1 \text{ atm} \quad T_2 = 373 \text{ K} \quad P_2 = 2 \text{ atm}$$

Substituting the values into the equation, we get:

$$V_2 = (2.5 \text{ L} \times 373 \text{ K} \times 1 \text{ atm}) / (298 \text{ K} \times 2 \text{ atm}) \quad V_2 = 3.3 \text{ L}$$



your 247 online job search guide 3 10 to yuma teleip fundamentals database
systems elmasri navathe solution manual interpretations of poetry and religion grade

12 chemistry exam papers safety manager interview questions and answers herbal antibiotics what big pharma doesnt want you to know how to pick and use the 45 most powerful herbal antibiotics for overcoming any ailment 8th grade and note taking guide answers to desire a devil legend of the four soldiers series 4 97 buick skylark repair manual 556 b r a v 130 critical reviews in tropical medicine volume 2 the official lsat preptest 40 management information systems 6th edition by effy oz fundamentals of aerodynamics anderson 5th solution operative ultrasound of the liver and biliary ducts biodiversity new leads for the pharmaceutical and agrochemical industries special publications toshiba e studio 255 manual urine protein sulfosalicylic acid precipitation test ssa kashmir behind the vale subaru impreza g3 wrx sti 2012 2014 factory repair manual learning spring boot turnquist greg l general psychology chapter test questions answers comptia linux study guide webzee common core pacing guide for massachusetts solution manual continuum mechanics mase hero honda motorcycle engine parts diagram cumminsaircompressor manualheart ofbootand shoemakingcanondm xl1sa ntscservicemanual repairguide chevroletblazer ownersmanual1993 1999download advancesin computerscienceenvironment ecoinformaticsand educationpartv internationalconference csee2011wuhan chinaaugust 2122 incomputerand informationscience magicolor2430 dlreferenceguide financialaccounting byt sreddy murthyservice manualfor civic2015model drivenengineering languagesand systems12thinternational conferencemodels 2009denver cousa october49 2009proceedingslecture notesincomputer sciencerepair manualhghurco bmc30parts manualsbluesguitar tabwhitepages songbookpursecut outtemplates1951 cadillacservice manual1986yamaha fz600servicerepair maintenancemanualastra 1995importadoservice manualhowto answerinferencequestions jumanji2017 fullmoviehindi dubbedwatch onlineesubs commercialanddebtor creditorlaw selectedstatutes2009 editionacademicstatutes bearcat210 servicemanual principlesofmicroeconomics 7theditiongame setmatchchampion arthurashe procurementprinciplesand management10thedition financialmarketsand institutions6th editionanswers brunnerandsuddarth textbookof medicalsurgical nursing11thedition websitefeedback controlofdynamic systems6th solution610 bobcatservice manual90libros deingenieriamecanica entaringa netsuzuki vzr1800rrt boulevardfullservice repairmanual2006 2009theseven mythsofgun controlreclaiming thetruth aboutguns crimeandthe secondamendment edfalconworkshop manualchris