

Chemistry Final Exam Review Questions

Useful Values and Equations

Some of the following values and equations may be useful for answering some of the questions and problems.

$$Q_F = 1.84 Q_C + 12$$

speed of light = 3.00×10^8 m/s

2000

$R = 0.082057 \text{ L-atm / deg-mole}$

Planck's constant = $6.63 \times 10^{-34} \text{ J.s}$

15. *Journal of the American Medical Association*, 2000; 284: 1039-1044.

Multiple Choice

Identify the letter of the choice that best completes the statement or answers the question.

- One of the following does **not** describe gases. Which one is it?
 - Expands infinitely.
 - Rigid shape.
 - Easily compressed.
 - Relatively low densities.
- The following properties describe the element, mercury (Hg). Which one is a **chemical** property?
 - Its density is 5.43 g/cm^3 .
 - It is a silvery-white metal.
 - It is a liquid at 298 K.
 - Mercury(II) sulfide forms when it is exposed to sulfide ions.
- All of the following are properties of SO_2 . Which one is a **physical** property?
 - It reacts with oxygen to form SO_3^{2-} .
 - It condenses to a colorless liquid at 14°F and atmospheric pressure.
 - It is a strong reducing agent.
 - It reacts with water and oxygen to form an acid.
- Which of the following numbers has 4 significant figures?
 - 0.04309
 - 0.0430
 - 0.0431
 - 0.43980
- How many significant figures should there be in the answer to the following math equation?
$$2.834 + 5.71520 + 2.12 + 178.1 + 250.2619$$
 - 3
 - 4
 - 5
 - 6
- How many significant figures should there be in the answer to the following math equation?
$$23.413 \text{ g} + (2.15 \text{ cm} \times 1.1 \text{ cm} \times 3.73 \text{ cm})$$
 - 2
 - 3
 - 4
 - 5
- At 25°C , one cm^3 of iron has a mass of 7.62 grams. What volume of iron is occupied by 125 grams of iron?
 - 0.82 cm^3
 - 8.2 cm^3
 - 0.164 cm^3
 - 16.4 cm^3
- A cube of lead has a volume of 6.61 cm^3 . Its mass is 75.0 grams. What is its density?
 - 3.85 g/cm^3
 - 7.41 g/cm^3
 - 11.3 g/cm^3
 - 22.6 g/cm^3

Modeling Chemistry Review For Final Exam

United States Air Force Academy

A red circular graphic with a gradient, appearing as a partial circle or a stylized arrow pointing to the right, located to the right of the United States Air Force Academy text.

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United States Air Force Academy United States Air Force Academy,1968 *The Climate Modelling Primer* Kendal McGuffie,Ann Henderson-Sellers,2014-04-07 As a consequence of recent increased awareness of the social and political dimensions of climate many non specialists discover a need for information about the variety of available climate models A Climate Modelling Primer Fourth Edition is designed to explain the basis and mechanisms of all types of current physically based climate models A thoroughly revised and updated edition this book will assist the reader in understanding the complexities and applicabilities of today s wide range of climate models Topics covered include the latest techniques for modelling the coupled biosphere ocean atmosphere system information on current practical aspects of climate modelling and ways to evaluate and exploit the results discussion of Earth System Models of Intermediate Complexity EMICs and interactive exercises based on Energy Balance Model EBM and the Daisyworld model Source codes and results from a range of model types allows readers to make their own climate simulations and to view the results of the latest high resolution models Now in full colour throughout and with the addition of cartoons to enhance student understanding the new edition of this successful textbook enables the student to tackle the difficult subject of climate modeling *Matriculation model answers: Latin. Being the papers from June 1888 to Jan. 1891 (to Jan. 1894, Jan. 1892 to June 1897, June 1894 to Jan. 1900, Jan. 1896 to June 1901, to Sept. 1902, to Jan. 1904, Sept. 1902 to Jan. 1906, to Jan. 1907, to Jan. 1908, to Jan. 1909, to Jan. 1910, to June 1911, Jan. 1907 to Jan. 1912, [June 1912 to June 1915]), with answers by B.J. Hayes and W.F. Masom (with answers by tutors of University correspondence college). London univ, exam. papers,1891 **Matriculation model answers: French. Being the papers from June 1888 to Jan. 1894 (to Jan. 1897, June 1893 to Jan. 1899, to Jan. 1900, to Jan. 1902, June 1897 to Sept. 1902, Jan. 1899 to Sept. 1904, to Sept. 1905, to Sept. 1906, Jan. 1901 to Jan. 1907, to Sept. 1907, to Sept. 1908, Jan. 1905 to June 1909, to Jan. 1910, to Sept. 1910, to June 1911, June 1911 to June 1915), with answers by tutors of University correspondence college** London univ, exam. papers,1894*

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English/English Literature AQA Steven Croft,2006-07 This GCSE revision guide for English and English literature contains updated content in line with the latest curriculum changes It has in depth course coverage with tips key points and progress check panels Sample questions with model answers are included *Monthly Catalog of United States Government Publications* ,1983 Catalogue Number. Course Catalog Anonymous,2024-05-31 **Annual Catalogue** United States Air

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