

1999 Advanced Placement Chemistry Exam

Section I: Multiple Choice

Time — 1 hour and 30 minutes

NO CALCULATORS MAY BE USED WITH SECTION I.

Note: For all questions, assume that the temperature is 298 K, the pressure is 1.00 atmosphere, and solutions are aqueous unless otherwise specified.

Throughout the test the following symbols have the definitions specified unless otherwise noted.

T = temperature
 P = pressure
 V = volume
 S = entropy
 H = enthalpy
 G = free energy
 R = molar gas constant
 n = number of moles
 M = molar

m = molal
 L, mL = liter(s), milliliter(s)
 g = gram(s)
 nm = nanometer(s)
 atm = atmosphere(s)
 J, kJ = joule(s), kilojoule(s)
 V = volt(s)
 mol = mole(s)

Part A

Directions: Each set of lettered choices below refers to the numbered statements immediately following it. Select the one lettered choice that best fits each statement and then fill in the corresponding oval on the answer sheet. A choice may be used once, more than once, or not at all in each set.

Questions 1–4 refer to the following types of energy.

- (A) Activation energy
- (B) Free energy
- (C) Ionization energy
- (D) Kinetic energy
- (E) Lattice energy

1. The energy required to convert a ground-state atom in the gas phase to a gaseous positive ion
2. The energy change that occurs in the conversion of an ionic solid to widely separated gaseous ions
3. The energy in a chemical or physical change that is available to do useful work
4. The energy required to form the transition state in a chemical reaction

Questions 5–8 refer to atoms for which the occupied atomic orbitals are shown below.

- (A) $1s \underline{\hspace{1cm}} 2s \underline{\hspace{1cm}}$
- (B) $1s \underline{\hspace{1cm}} 2s \underline{\hspace{1cm}}$
- (C) $1s \underline{\hspace{1cm}} 2s \underline{\hspace{1cm}} 2p \underline{\hspace{1cm}} \underline{\hspace{1cm}} \underline{\hspace{1cm}}$
- (D) $1s \underline{\hspace{1cm}} 2s \underline{\hspace{1cm}} 2p \underline{\hspace{1cm}} \underline{\hspace{1cm}} \underline{\hspace{1cm}}$
- (E) $[Ar] 4s \underline{\hspace{1cm}} 3d \underline{\hspace{1cm}} \underline{\hspace{1cm}} \underline{\hspace{1cm}} \underline{\hspace{1cm}}$

5. Represents an atom that is chemically unreactive
6. Represents an atom in an excited state
7. Represents an atom that has four valence electrons
8. Represents an atom of a transition metal

Questions 9–12 refer to aqueous solutions containing 1:1 mole ratios of the following pairs of substances. Assume all concentrations are 1 M .

2008 Ap Chemistry Exam Multiple Choice Answers

John T. Moore, Richard H. Langley



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The Publishers Weekly ,2008

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The Nucleus Ronald Hancock, 2008-08-28 Although our understanding of the structure and activities of the cell nucleus and of the nanomachines which it contains is increasing rapidly much remains to be learned The application and continuing development of the new powerful biochemical and biophysical methodologies described here are essential in this quest In **The Nucleus** researchers from more than forty leading international laboratories describe state of the art methods for isolating nuclei and their components and for studying their structure and activities including some pathology associated features Volume I Nuclei and Subnuclear Structures presents an overview of features of the intranuclear environment followed by the most recent procedures for isolating nuclei from a wide range of cell types including muscle cells yeast oocytes cells with polytene nuclei Arabidopsis trypanosomes and dinoflagellates The latest methods are described for isolating and working with nucleoli constitutive heterochromatin pathology associated inclusions and chromatin and for examining glycosylation sumoylation and ADP ribosylation of nuclear proteins Written in the highly successful **Methods in Molecular Biology**™ series format chapters contain lists of necessary materials and reagents readily reproducible protocols and tips for troubleshooting and avoiding known pitfalls **The Nucleus** Volume I Nuclei and Subnuclear Structures is an essential reference for scientists who are working on our rapidly growing understanding of the cell nucleus and its activities

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