

Multiple Choice: (from Zumdahl *Chemistry*, 9th Edition, AP Edition)

Refer to the following diagram for questions 1 – 3

A 100.0 mL Graduated Cylinder is filled with 100.0 mL of water. A few drops of food colouring are added to the top of the water, without mixing. Initially, the top of the graduated cylinder appears to be very dark, while the bottom remains clear and colourless. After 5 min, the liquid in the graduated cylinder appears to be uniformly coloured.



1. Classify the contents in the graduated cylinder before any food colouring is added.

- (A) Element (B) Compound. (C) Heterogeneous mixture
(D) Homogeneous mixture

2. Classify the contents in the graduated cylinder just after the food colouring is added.

- (A) Element (B) Compound. (C) Heterogeneous Mixture (D) Homogeneous mixture

3. Classify the contents in the graduated cylinder after the 5 minutes has elapsed.

- (A) Element (B) Compound. (C) Heterogeneous Mixture (D) Homogeneous mixture

4. A 10.00 g piece of metal is submerged in a graduated cylinder initially containing 20.00 mL of water. With the metal in the cylinder, the level of water is recorded as 21.40 mL. Determine the identity of the metal.

- (A) Al ($\rho = 2.70 \text{ g/mL}$)
(B) Zn ($\rho = 7.13 \text{ g/mL}$)
(C) Ag ($\rho = 10.49 \text{ g/mL}$)
(D) Au ($\rho = 19.32 \text{ g/mL}$)

5. $^{238}_{94}\text{Pu} \rightarrow \text{X} + \alpha$

In the decay represented above, what is the nucleon number of particle X?

- (A) 92 (B) 96 (C) 235 (D) 243

6. Which of the following statements about atoms is CORRECT?

- (A) Atoms are charged because they have different numbers of protons and neutrons
(B) All atoms of an element have the same number of nucleons and electrons.
(C) An atom is mostly filled with protons.
(D) The nucleus is negatively charged.

6. When each of the following is heated to 50°C and the temperature is held constant for 5 min, which one undergoes **only** a physical change.

- (A) egg (B) steak (C) ice cream (D) cake batter

7. A sample of Ti was ionized by electron impact in a mass spectrometer. Information from the mass spectrum about the isotopes of Ti in the sample is shown in Table 2.

Table 1. Results from mass spectrum of Ti sample

m/z	46	47	48	49
Percent Abundance	9.1	7.8	74.6	8.5

Calculate the relative atomic mass of Ti in this sample. Report answers to one decimal place.

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Elizabeth M. Halcrow



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product made within the last 6 months. · 2. Review storage ... UNDERSTANDING VULNERABILITY ASSESSMENT Table 6 provides examples of PRNs for different raw materials. Table 6 Priority ... Mass balance exercises at critical points in the supply chain - the mass ... ISSUE 8 FOOD SAFETY - Frequently Asked Questions - a worked example from the raw material supplier, which ... to conduct a mass balance test every 6 months for each claim or a single mass balance test every. Solution Manual.error Control Coding 2nd.by Lin Shu and ... Solution Manual.error Control Coding 2nd.by Lin Shu and Costello ; Error Control Coding Fundamentals and Applications by Shu Lin PDF · 238 66 ; Error Control ... Solution Manual - Error Control Coding 2nd - by Lin Shu ... Solution Manual.error Control Coding 2nd.by Lin Shu and Costello - Free download as PDF File (.pdf), Text File (.txt) or read online for free. Error Control Coding2e Lin and Costello Solutions Manual ... Error Control Coding2e Lin and Costello Solutions Manual PDF - Free download as PDF File (.pdf), Text File (.txt) or read online for free. Solutions - Essentials of Error-Control Coding Essentials of Error-Control Coding. Jorge Castiñeira Moreira Patrick Guy Farrell. Detailed Solutions to Problems of Chapter 1 · Detailed Solutions to Problems ... SOLUTION MANUAL-ERROR CONTROL CODING SOLUTION MANUAL-ERROR CONTROL CODING. SOLUTION MANUAL-ERROR CONTROL CODING ... pdf. Download. Knowledge Score: N/A. 0.00. Ask a Question. Your question can't be ... Solution Manual.Error Control Coding 2nd.by Lin Shu and ... Oct 13, 2015 — Solution Manual.Error Control Coding 2nd.by Lin Shu and Costello. 154 ... pdf Error Correction Coding Mathematical Methods and Algorithms Todd K. Error Control Coding by Shu Lin.pdf A simple way of decoding some cyclic codes, known as error- trapping decoding, is covered in Chapter 5. The important class of BCH codes for multiple-error ... introduction to coding theory Ron roth solutions manual Aug 29, 2023 — This Download free introduction to coding theory Ron roth solutions manual | and all chapter answers and solution book has evolved from ... Lecture Notes Sub: Error Control Coding and Cryptography ... Lecture Notes. Sub: Error Control Coding and Cryptography. Faculty: S Agrawal. 1st Semester M.Tech, ETC (CSE). Module-I: (10 Hours). Solution Manual- Coding Theory by Hoffman et al. ... Solution Manual- Coding Theory by Hoffman et al. for free. Upload your PDF on PubHTML5 and create a flip PDF like Solution Manual- Coding Theory by Hoffman et