

Chemistry 1220
Practice Exam 3
7 July, 2003

Instructions:

Do not begin until 8:40 AM.

This exam should have 25 questions. Each question is worth 4 points for a total of 100 points. A periodic table should be on the reverse side of this page.

Use only a #2 pencil to mark the best answer on the scantron Sheet. You will turn in only the scantron sheet and your homework set 2. You should keep the rest of the exam.

On the scantron sheet, fill out your name and SS# and be sure to fill out the corresponding bubbles.

Information:

$$K_w = [\text{H}_3\text{O}^+][\text{OH}^-] = 1.0 \times 10^{-14} \text{ (at } 25^\circ\text{C)}$$

$$K_a \times K_b = K_w$$

$$\text{pH} = \text{p}K_a + \log ([\text{A}^-]/[\text{HA}])$$

$$\text{pH} + \text{pOH} = 14$$

$$\Delta S_{\text{sys}} = q_{\text{rev}}/T \text{ (at constant } T)$$

$$\Delta G = \Delta H - T\Delta S$$

$$\Delta G = \Delta G^\circ + RT \ln Q$$

$$\Delta G^\circ = -RT \ln K_{\text{eq}}$$

$$1\text{V} = 1\text{J/C}$$

$$1\text{W} = 1\text{J/s}$$

$$\Delta G = -nFE$$

$$\Delta G^\circ = -nFE^\circ$$

$$1\text{F} = 96500\text{ C/mol} = 96,500\text{ J/(V} \times \text{mol)}$$

$$E^\circ_{\text{cell}} = E^\circ_{\text{red(cathode)}} - E^\circ_{\text{red(anode)}}$$

$$E^\circ_{\text{cell}} = E^\circ_{\text{red(cathode)}} + E^\circ_{\text{ox(anode)}}$$

$$E = E^\circ - (0.0592/n) \log Q$$

$$\log K_{\text{eq}} = (nE^\circ)/0.0592$$

$$w = nFE_{\text{ext}}$$

$$R = 8.314\text{ J/(mol} \times \text{K)}$$

$$K = ^\circ\text{C} + 273.15$$

$$\Delta H^\circ = \sum n H^\circ(\text{products}) - \sum m H^\circ(\text{reactants})$$

$$\Delta S^\circ = \sum n S^\circ(\text{products}) - \sum m S^\circ(\text{reactants})$$

$$\Delta G^\circ = \sum n \Delta G^\circ_f(\text{products}) - \sum m \Delta G^\circ_f(\text{reactants})$$

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A red circular graphic with a gradient, appearing as a partial circle or a thick curved line, located to the right of the 'Test Master Press Ohio' text.

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The Top Books of the Year Practice Exam 3 Answer Key Emathinstructions The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels captivating the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the engaging narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Practice Exam 3 Answer Key Emathinstructions : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This evocative coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of compelling stories waiting to be discovered. The novel begins with Richard Popen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you guessing until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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