

### Answers to The Oceans End of Unit Test

Q	Answer with marks	Marking suggestions
1(a)	CO <sub>2</sub> is a gas (1); which has more entropy as there are more ways of arranging its molecules (1)	
1(b)	$\Delta S^{\circ}_{\text{sys}} = 214 + 38 - 93$ (1); $= +159 \text{ J K}^{-1} \text{ mol}^{-1}$ (1), including sign and units	
1(c) (i)	$-180 \times 1000/300$ (1); $= -600 \text{ J K}^{-1} \text{ mol}^{-1}$ (1), including sign and units	
1(c) (ii)	$-150$ (1) ( $\text{J K}^{-1} \text{ mol}^{-1}$ )	
1(d)	$\Delta S^{\circ}_{\text{tot}} = \Delta S^{\circ}_{\text{sys}} + \Delta S^{\circ}_{\text{sur}}$ This is negative at 300K and positive at 1200K (1); Positive values means reactions are possible (1)	
1(e) (i)	<p>Top line correct, labelled <math>\Delta H_f</math> or enthalpy change of formation (1); Rest of cycle correct, arrows labelled <math>\Delta H_f</math> or some attempt to assign specific enthalpy changes (1)</p>	Or alternative cycle drawn as an enthalpy level diagram
1(e) (ii)	Lattice enthalpy $= \Delta H_f - \Delta H_f - \Delta H_f - \Delta H_f$ (1) $= -635 - (178 + 249) - (596 + 1152 - 147 + 753)$ $= -3416 \text{ kJ mol}^{-1}$ (1)	Units not essential for mark
1(f) (i)	At the bottom of the lake the pressure is higher (1); this means the equilibrium will move to the left, increasing the concentration of CO <sub>2</sub> (aq) (1)	
1(f) (ii)	Deep oceans can absorb a lot of CO <sub>2</sub> (1); this acts as a 'sink' for the extra CO <sub>2</sub> we are producing (1)	

Q	Answer with marks	Marking suggestions
2(a)	Ammonia has only (an average) of one hydrogen bond per molecule (1); water has two (1); greater intermolecular forces mean higher boiling point (1)	
2(b)	Ammonia would be less efficient (1); as it has a lower specific heating capacity than water (1); thus less energy would be transferred per mole/gram of ammonia (1)	

Q	Answer with marks	Marking suggestions
3(a) (i)	It is an equilibrium (1); so the benzoic acid is not fully reacted/ ionised (1)	
3(a) (ii)	$K_a = \frac{[\text{C}_6\text{H}_5\text{COO}^-][\text{H}_3\text{O}^+]}{[\text{C}_6\text{H}_5\text{COOH}]}$ (1) for products on nominator; reactants on denominator; (1) completely correct	
3(b) (i)	$-\lg[\text{H}^+]/-\lg[\text{H}_2\text{O}^+]$ (1)	
3(b) (ii)	$[\text{H}_2\text{O}^+]^2 = (1 \times 10^{-14}) \times 0.010 = 1 \times 10^{-16}$ (1) $[\text{H}_2\text{O}^+] = 1 \times 10^{-8} \text{ mol dm}^{-3}$ (1) $\text{pH} = 8$ (1)	
3(b) (iii)	$\text{pH} = 2$ (1)	
3(b) (iv)	HCl is fully ionised (1); (benzoic acid is partially ionised) Hence the concentration of $[\text{H}_2\text{O}^+]$ is lower (1)	

# Answers To The Atmosphere End Of Unit Test Benjamin Mills

**Michael Brown**



**Answers To The Atmosphere End Of Unit Test Benjamin Mills:**

The Top Books of the Year Answers To The Atmosphere End Of Unit Test Benjamin Mills The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthraling the hearts of readers worldwide. Lets delve into the realm of top-selling books, exploring the fascinating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing 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. Answers To The Atmosphere End Of Unit Test Benjamin Mills : Delia Owens "Where the Crawdads Sing" This captivating 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, captivating readers with its evocative prose and mesmerizing setting. These popular 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 engaging stories waiting to be discovered. The novel begins with Richard Papen, 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 suspenseful novel that will keep you wondering until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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