

188) A student finds the ΔG° of hydrolysis of ATP is -30.5 kJ/mol at 37°C in buffered water at pH 7.0. At which condition would the hydrolysis of ATP be most spontaneous?

(a) Initial reactants are at their standard states

_____ (b) Initial $[\text{ATP}] = 1 \text{ M}$, initial $[\text{ADP}] = 1 \text{ M}$, initial $[\text{P}_i] = 1 \text{ M}$ _____ (30)

(c) Initial is the standard state of reactants of ATP , $[\text{ADP}] = 1 \text{ M}$, $[\text{P}_i] = 1 \text{ M}$

_____ (d) Initial is the standard state of reactants of ATP , $[\text{ADP}] = 1 \text{ M}$, $[\text{P}_i] = 1 \text{ M}$ _____ (30)

189) Calculate the spontaneity of hydrolysis of ATP in a cell at 37°C .

$$\frac{1.2 \times 10^{-3}}{1.2 \times 10^{-3}} = \frac{[\text{ADP}][\text{P}_i]}{[\text{ATP}]} \quad \Delta G^\circ = -30.5 \text{ kJ/mol}$$

_____ (a) $\Delta G^\circ = -30.5 \text{ kJ/mol}$ _____ (30)

190) Hydrolysis of ATP is spontaneous under standard conditions with an equilibrium constant $K = 10^5$.

(a) Hydrolysis is spontaneous if ΔG° is negative

_____ (b) Hydrolysis is spontaneous if ΔG° is positive _____ (30)

191) Phosphorylation of a protein is spontaneous under standard conditions with an equilibrium constant $K = 10^5$.

_____ (a) Phosphorylation is spontaneous if ΔG° is negative _____ (30)

_____ (b) Phosphorylation is spontaneous if ΔG° is positive _____ (30)

_____ (c) Phosphorylation is spontaneous if ΔG° is negative _____ (30)

(Total: 180)



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Table of Contents F321 Ocr Chemistry Specimen Paper 20mark Scheme

1. Understanding the eBook F321 Ocr Chemistry Specimen Paper 20mark Scheme
 - The Rise of Digital Reading F321 Ocr Chemistry Specimen Paper 20mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying F321 Ocr Chemistry Specimen Paper 20mark Scheme
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an F321 Ocr Chemistry Specimen Paper 20mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from F321 Ocr Chemistry Specimen Paper 20mark Scheme
 - Personalized Recommendations
 - F321 Ocr Chemistry Specimen Paper 20mark Scheme User Reviews and Ratings
 - F321 Ocr Chemistry Specimen Paper 20mark Scheme and Bestseller Lists
5. Accessing F321 Ocr Chemistry Specimen Paper 20mark Scheme Free and Paid eBooks
 - F321 Ocr Chemistry Specimen Paper 20mark Scheme Public Domain eBooks
 - F321 Ocr Chemistry Specimen Paper 20mark Scheme eBook Subscription Services
 - F321 Ocr Chemistry Specimen Paper 20mark Scheme Budget-Friendly Options
6. Navigating F321 Ocr Chemistry Specimen Paper 20mark Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - F321 Ocr Chemistry Specimen Paper 20mark Scheme Compatibility with Devices
 - F321 Ocr Chemistry Specimen Paper 20mark Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of F321 Ocr Chemistry Specimen Paper 20mark Scheme
 - Highlighting and Note-Taking F321 Ocr Chemistry Specimen Paper 20mark Scheme
 - Interactive Elements F321 Ocr Chemistry Specimen Paper 20mark Scheme

8. Staying Engaged with F321 Ocr Chemistry Specimen Paper 20mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers F321 Ocr Chemistry Specimen Paper 20mark Scheme
9. Balancing eBooks and Physical Books F321 Ocr Chemistry Specimen Paper 20mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection F321 Ocr Chemistry Specimen Paper 20mark Scheme
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine F321 Ocr Chemistry Specimen Paper 20mark Scheme
 - Setting Reading Goals F321 Ocr Chemistry Specimen Paper 20mark Scheme
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of F321 Ocr Chemistry Specimen Paper 20mark Scheme
 - Fact-Checking eBook Content of F321 Ocr Chemistry Specimen Paper 20mark Scheme
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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