

F324-unofficial mark scheme (in progress)

Marks accounted for: 60/60

- Give the systematic name of the alcohol that is formed by this hydrolysis. (1)
 - Propan(e)-1,2,3-triol
- What are the other monomers that make up this polymer? (3)
(Hydrolysed by hot NaOH)
 - Two different carboxylic acids with $\text{COO}^-(\text{Na}^+)$ - The monomers have COOH as it's not referring to the hydrolysed products but the monomer units of the polymer I'm pretty sure that the question said: "What are the other products of this hydrolysis" or something along those lines
 - One salt had a $\text{C}=\text{C}$ double bond
- Why are people who drink a lot of goat's milk likely to suffer from CHD? (2)
 - Fatty acids build up in the arteries and lead to CHD?
 - Has trans isomer due to $\text{C}=\text{C}$ double bond fatty acid linked to LDL's and hence Atherosclerosis
 - Trans-fatty acid in triglyceride of milk increases 'bad' cholesterol levels in blood, resulting in increased risk of coronary heart disease and stroke (straight from the spec)
 - trans fatty acids can pack more tightly and hence have higher melting points than cis fatty acids. $\rightarrow$ so more likely to deposit on artery walls
 - The other two molecules were fully saturated fatty acids which would also lead to the formation of atheroma
- State how 4-aminophenol can behave as a base. (1)
- The lone pair on the Nitrogen atom in the amine group can accept a proton, forming a dative covalent bond with it to give NH_3^+ .
- $\text{NH}_2 + \text{H}^+ \rightarrow \text{NH}_3^+$
- 4-Aminophenol is produced by the reduction of 4-nitrophenol. Write an equation to show the production of 4-aminophenol from 4-nitrophenol. Use $[\text{H}]$ to represent the reducing agent. (1)
- $4\text{-Nitrophenol} + 6[\text{H}] = 4\text{-Aminophenol} + 2\text{H}_2\text{O}$
- 4-nitrophenol can be produced from 4-bromophenol. (4)
 - Complete the mechanism for this reaction.
 - Use $^+\text{NO}_2$ as the electrophile. Include any intermediate and the products.
 - In the mechanism for this reaction, NO_2 substitutes for Br on the ring.

June 2014 F324 Mark Scheme

Padhraic Smyth



June 2014 F324 Mark Scheme:

June 2014 F324 Mark Scheme Book Review: Unveiling the Magic of Language

In an electronic era where connections and knowledge reign supreme, the enchanting power of language has been much more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is actually remarkable. This extraordinary book, aptly titled "**June 2014 F324 Mark Scheme**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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Table of Contents June 2014 F324 Mark Scheme

1. Understanding the eBook June 2014 F324 Mark Scheme
 - The Rise of Digital Reading June 2014 F324 Mark Scheme
 - Advantages of eBooks Over Traditional Books
2. Identifying June 2014 F324 Mark 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 a June 2014 F324 Mark Scheme
 - User-Friendly Interface
4. Exploring eBook Recommendations from June 2014 F324 Mark Scheme
 - Personalized Recommendations
 - June 2014 F324 Mark Scheme User Reviews and Ratings
 - June 2014 F324 Mark Scheme and Bestseller Lists

5. Accessing June 2014 F324 Mark Scheme Free and Paid eBooks
 - June 2014 F324 Mark Scheme Public Domain eBooks
 - June 2014 F324 Mark Scheme eBook Subscription Services
 - June 2014 F324 Mark Scheme Budget-Friendly Options
6. Navigating June 2014 F324 Mark Scheme eBook Formats
 - ePub, PDF, MOBI, and More
 - June 2014 F324 Mark Scheme Compatibility with Devices
 - June 2014 F324 Mark Scheme Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of June 2014 F324 Mark Scheme
 - Highlighting and Note-Taking June 2014 F324 Mark Scheme
 - Interactive Elements June 2014 F324 Mark Scheme
8. Staying Engaged with June 2014 F324 Mark Scheme
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers June 2014 F324 Mark Scheme
9. Balancing eBooks and Physical Books June 2014 F324 Mark Scheme
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection June 2014 F324 Mark Scheme
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine June 2014 F324 Mark Scheme
 - Setting Reading Goals June 2014 F324 Mark Scheme
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of June 2014 F324 Mark Scheme
 - Fact-Checking eBook Content of June 2014 F324 Mark 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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