

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.

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Yi-Tong Ma



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Table of Contents Gcses June 2013 Unofficial Mark Scheme Chem

1. Understanding the eBook Gcses June 2013 Unofficial Mark Scheme Chem
 - The Rise of Digital Reading Gcses June 2013 Unofficial Mark Scheme Chem
 - Advantages of eBooks Over Traditional Books
2. Identifying Gcses June 2013 Unofficial Mark Scheme Chem
 - 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 Gcses June 2013 Unofficial Mark Scheme Chem
 - User-Friendly Interface
4. Exploring eBook Recommendations from Gcses June 2013 Unofficial Mark Scheme Chem
 - Personalized Recommendations
 - Gcses June 2013 Unofficial Mark Scheme Chem User Reviews and Ratings
 - Gcses June 2013 Unofficial Mark Scheme Chem and Bestseller Lists
5. Accessing Gcses June 2013 Unofficial Mark Scheme Chem Free and Paid eBooks
 - Gcses June 2013 Unofficial Mark Scheme Chem Public Domain eBooks
 - Gcses June 2013 Unofficial Mark Scheme Chem eBook Subscription Services
 - Gcses June 2013 Unofficial Mark Scheme Chem Budget-Friendly Options

6. Navigating Gcses June 2013 Unofficial Mark Scheme Chem eBook Formats
 - ePub, PDF, MOBI, and More
 - Gcses June 2013 Unofficial Mark Scheme Chem Compatibility with Devices
 - Gcses June 2013 Unofficial Mark Scheme Chem Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Gcses June 2013 Unofficial Mark Scheme Chem
 - Highlighting and Note-Taking Gcses June 2013 Unofficial Mark Scheme Chem
 - Interactive Elements Gcses June 2013 Unofficial Mark Scheme Chem
8. Staying Engaged with Gcses June 2013 Unofficial Mark Scheme Chem
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Gcses June 2013 Unofficial Mark Scheme Chem
9. Balancing eBooks and Physical Books Gcses June 2013 Unofficial Mark Scheme Chem
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Gcses June 2013 Unofficial Mark Scheme Chem
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Gcses June 2013 Unofficial Mark Scheme Chem
 - Setting Reading Goals Gcses June 2013 Unofficial Mark Scheme Chem
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Gcses June 2013 Unofficial Mark Scheme Chem
 - Fact-Checking eBook Content of Gcses June 2013 Unofficial Mark Scheme Chem
 - 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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