

## 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  $\text{COOH}$  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  $\text{NH}_3^+$ .
- $\text{NH}_2 + \text{H}^+ \rightarrow \text{NH}_3^+$
- 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,  $\text{NO}_2$  substitutes for Br on the ring.

# Ocr F324 June 2013 Unofficial Mark Scheme

**Tao Wei**



**Ocr F324 June 2013 Unofficial Mark Scheme:**

## **Ocr F324 June 2013 Unofficial Mark Scheme** Book Review: Unveiling the Magic of Language

In an electronic digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Ocr F324 June 2013 Unofficial Mark Scheme**," written by a very 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.

<https://crm.avenza.com/About/uploaded-files/default.aspx/Oracle%20University%20Primavera%20P6%20Training%20Manual.pdf>

### **Table of Contents Ocr F324 June 2013 Unofficial Mark Scheme**

1. Understanding the eBook Ocr F324 June 2013 Unofficial Mark Scheme
  - The Rise of Digital Reading Ocr F324 June 2013 Unofficial Mark Scheme
  - Advantages of eBooks Over Traditional Books
2. Identifying Ocr F324 June 2013 Unofficial 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 an Ocr F324 June 2013 Unofficial Mark Scheme
  - User-Friendly Interface
4. Exploring eBook Recommendations from Ocr F324 June 2013 Unofficial Mark Scheme
  - Personalized Recommendations
  - Ocr F324 June 2013 Unofficial Mark Scheme User Reviews and Ratings

- Ocr F324 June 2013 Unofficial Mark Scheme and Bestseller Lists
- 5. Accessing Ocr F324 June 2013 Unofficial Mark Scheme Free and Paid eBooks
  - Ocr F324 June 2013 Unofficial Mark Scheme Public Domain eBooks
  - Ocr F324 June 2013 Unofficial Mark Scheme eBook Subscription Services
  - Ocr F324 June 2013 Unofficial Mark Scheme Budget-Friendly Options
- 6. Navigating Ocr F324 June 2013 Unofficial Mark Scheme eBook Formats
  - ePub, PDF, MOBI, and More
  - Ocr F324 June 2013 Unofficial Mark Scheme Compatibility with Devices
  - Ocr F324 June 2013 Unofficial Mark Scheme Enhanced eBook Features
- 7. Enhancing Your Reading Experience
  - Adjustable Fonts and Text Sizes of Ocr F324 June 2013 Unofficial Mark Scheme
  - Highlighting and Note-Taking Ocr F324 June 2013 Unofficial Mark Scheme
  - Interactive Elements Ocr F324 June 2013 Unofficial Mark Scheme
- 8. Staying Engaged with Ocr F324 June 2013 Unofficial Mark Scheme
  - Joining Online Reading Communities
  - Participating in Virtual Book Clubs
  - Following Authors and Publishers Ocr F324 June 2013 Unofficial Mark Scheme
- 9. Balancing eBooks and Physical Books Ocr F324 June 2013 Unofficial Mark Scheme
  - Benefits of a Digital Library
  - Creating a Diverse Reading Collection Ocr F324 June 2013 Unofficial Mark Scheme
- 10. Overcoming Reading Challenges
  - Dealing with Digital Eye Strain
  - Minimizing Distractions
  - Managing Screen Time
- 11. Cultivating a Reading Routine Ocr F324 June 2013 Unofficial Mark Scheme
  - Setting Reading Goals Ocr F324 June 2013 Unofficial Mark Scheme
  - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Ocr F324 June 2013 Unofficial Mark Scheme
  - Fact-Checking eBook Content of Ocr F324 June 2013 Unofficial 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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