

## 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)
- $4\text{-Nitrophenol} + 6[\text{H}] \rightarrow 4\text{-Aminophenol} + 2\text{H}_2\text{O}$
- 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.

# M1 June 2013 Unofficial Mark Scheme

**JG Myers**



**M1 June 2013 Unofficial Mark Scheme:**

## **M1 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 are more apparent than ever. Its capability to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**M1 June 2013 Unofficial Mark Scheme**," published by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound impact on our existence. Throughout this critique, we will delve in to the book is central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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