Aromatics

Question Paper

Level	Pre U
Subject	Chemistry
Exam Board	Cambridge International Examinations
Topic	Aromatics- Aromatic chemistry
Booklet	Question Paper

Time Allowed: 26 minutes

Score: /22

Percentage: /100

Grade Boundaries:

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1. Some reactions starting from benzene, C_6H_6 , are shown.

(a) (i) Reactions 1 and 2 both proceed by electrophilic substitution.

Give the names of the reagent(s) needed, catalyst used and the identity of the electrophile in each case.

Reaction 1

(ii)

reagent(s)
catalyst
electrophile
Reaction 2
reagent(s)
catalyst
electrophile[6]
For reaction 3, state the type of reaction undergone by nitrobenzene and the reagents needed.
reaction type
ro.

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(D)		not react with bromine water under these conditions.		
	(i)	State what would be observed on addition of bromine water to phenol until in excess.		
	(ii)	Give the equation for the reaction between excess bromine and phenol.		
	(iii)	Explain why phenol is brominated under these conditions whereas nitrobenzene is no		
(c)		pK_a for phenol is about 10 while the value for ethanol is about 16. lain the relative magnitudes of these values.		
(d)	(i)	Write an equation for the reaction of phenylamine with hydrochloric acid.	[1]	
	(ii)	State and explain the relative basicities of ammonia, ethylamine and phenylamine.	ני].	