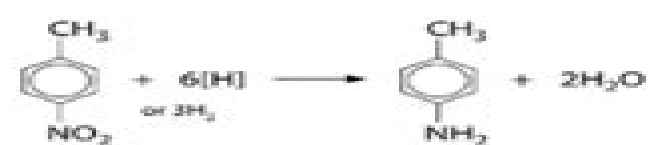


Answers to examination-style questions

Answers	Marks	Examiner's tips
1 a) dimethylamine	1	
b) nucleophilic substitution 	5	The curly arrow must be from the lone pair. Marks 1 and 2 are for the curly arrows if shown (M1 and M2). Mark 3 is for the structure of the intermediate. Mark 4 is to show the removal of the H⁺. You do not need to show the reagent here. Final mark is for the name of the mechanism.
c) quaternary ammonium salt surfactant / detergent / fabric softener or conditioner/ hair conditioner	2	
2 a) Sn or Fe/HCl Sn or Fe/H ₂ SO ₄ or H ₂ /Ni can be used as the reducing agent.	2	Do not accept dilute or conc. for these 2 acids or you cannot have HNO₃ at all. Do not accept NaBH₄/ LiAlH₄ or Na/C₂H₅OH.
		
b) 	1	NH ₃ ⁺ is also acceptable.

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A Loxley



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