## **Nitric Acid: Answers**

1.	(a)		fifths of the air is nitrogen, which takes no part in the reactions.  en is required in three of the reactions taking place.		
	(b)	(i)	i) A larger surface area		[1]
		(ii)	(ii) Catalyst poisoned/gauze broken up at high temperatures.		[1]
		(iii) The reaction is exothermic.		[1]	
	(c) Ammor		onia	Decreases	[1]
		Nitrogen		Stays the same	[1]
		Oxyge	en	Decreases	[1]
		Steam		Increases	[1]
	(d)	(i)	Fumes are brown in colour and easily seen.		[1]
		(ii)	Reduces the yield of nitric acid/reduces the profits.		[1]
		(iii)	Adva	ntage – increases levels of nitrogen in the soil	[1]
			Disadvantage – makes soil more acidic		
2.	Any three suitable points including				
	A good supply of water				
	Oil, natural gas terminal nearby				
	Close to customers				
	Good transport facilities for products				
	Labour force available				[3]

