

19. Nitrogen compounds

19.2 Nitriles and hydroxynitriles

Paper 2

Marking Scheme

Q1.

(a)	Rxn.	name of mechanism	Name of reagents and conditions	6
	1	M1 electrophilic addition	M2 steam AND concentrated phosphoric acid (catalyst)	
	2		M3 & M4 Two marks for name of reagent and both conditions. One mark for name of reagent and one conditions acidified potassium dichromate ((VI)) condition 1 warm condition 2 distil NOT reflux	
	6	M5 nucleophilic substitution	M6 ammonia (alcoholic) AND heat in a sealed tube / heat under pressure	