

Mark scheme

Question			Answer/Indicative content	Marks	Guidance
1		i	Potable (water) ✓	1 (AO 1.1)	DO NOT ALLOW portable (water) <u>Examiner's Comments</u> This question proved challenging as potable appeared to be a term not many candidates recognised.
		ii	Kills bacteria / kills microorganisms ✓	1 (AO 1.1)	IGNORE kills germs / cleans water Attacking/neutralising bacteria = BOD IGNORE gets rid of bacteria <u>Examiner's Comments</u> While many answers did little more than paraphrase the question with answers such as 'to make the water cleaner', others went on to discuss bacteria or microbes and so gained credit.
		iii	Damp (blue) litmus paper ✓ (Turns red then) is bleached ✓	2 (2 x AO 1.2)	Bleaches universal indicator = 1 for the bleach mark <u>Examiner's Comments</u> High scoring candidates discussed bleaching litmus, though it should be remembered that litmus does have to be damp. The squeaky pop test was often suggested, as was using lime water or looking for a flame colour. A significant number of candidates left this question blank.
			Total	4	
2			A ✓	1 (AO 1.2)	<u>Examiner's Comments</u> Very few candidates knew that the copper forms a blue precipitate, many chose green or orange-brown.
			Total	1	
3			C ✓	1 (AO 1.2)	<u>Examiner's Comments</u>

					Most candidates recognised that oxygen relights a glowing splint, some went for the squeaky pop test.
			Total	1	
4			Lighted splint ✓ (Makes a squeaky) pop / squeaky pop test ✓	2 (2 × AO 1.2)	<p>ALLOW 'flammable' for 1 mark IGNORE 'splint test' If more than one test, list principle</p> <p><u>Examiner's Comments</u></p> <p>Most candidates had clearly experienced the test for hydrogen and were able to discuss the 'squeaky pop test'. The most common alternatives were 'relights a glowing splint', 'use litmus', 'turns limewater milky', and 'flame test'.</p>
			Total	2	
5			A	1 (AO 1.2)	<p><u>Examiner's Comments</u></p> <p>This question was well answered, with the most common alternative being B, Green-blue.</p>
			Total	1	
6			A	1 (AO 1.2)	<p><u>Examiner's Comments</u></p> <p>High scoring candidates recognised the test for chlorine gas.</p>
			Total	1	
7			A ✓	1(AO1.2)	<p><u>Examiner's Comments</u></p> <p>The response to this question was similar to that for Question 1, suggesting that chemical tests in general are not well known.</p>
			Total	1	
8			C ✓	1(AO1.2)	<p><u>Examiner's Comments</u></p> <p>Almost all candidates knew the test for oxygen, with A being the most common incorrect response.</p>
			Total	1	