KS3 Chemistry

Answers



Chapter 4 – Acids and alkalis

Question	Answers	Extra information	Mark
1(a)	D		1
(b)	wear goggles wear gloves		1
2	neutralises does 7 salt		1 1 1 1
3	B, C, D, A, E	3 marks for all correct 2 marks for three or four correct 1 mark for two correct	3
4(a)	red blue concentrated dilute		1 1 1
(b)	A very acidic solution – will turn UI red – which is pH 1. A solution that is a little acidic – will turn UI yellow – which is pH 5. A neutral solution – will turn UI green – which is pH 7. A very alkaline solution – will turn UI purple – which is pH 14.	3 marks for all correct 2 marks for 2 correct 1 mark for 1 correct	3
5(a)	volume of bicarbonate solution		1
(b)	all points plotted correctly		1
(c)	point at 39 s circled		1
(d)	as the volume of bicarbonate solution increases, the time stays the same/the volume has no effect on the time		1

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6	alkali acid		1
7(a)	0 cm³ alkali: red, 1 100 cm³ alkali: green, 7		1
(b)	NaOH + HCl → NaCl + H₂O	mark for correct reactants mark for correct products	2
(c)	sodium chloride		1
8	solution A 30 g in 500 cm³ is equivalent to 60 g in 1000 cm³ 60 g is more than 40 g so solution A is more concentrated OR 40 g in 1000 cm³ is equivalent to 20 g in 500 cm³ 20 g is less than 30 g so solution B is less concentrated		1 1 1
	SPACED LEARNING QUESTIONS		
9	touching regular are still are not		1 1 1
10(a)	Reactants – hydrogen and oxygen Product – water	Both hydrogen and oxygen needed	1 1
(b)	hydrogen + oxygen → water		1
(c)	different number of oxygen atoms on each side of the arrow/2 oxygen atoms on the left but only 1 atom on the right/O $_2$ on the left but O on the right		1