

2003 Chemistry

Intermediate 1

Finalised Marking Instructions

${\bf 2003}\ Chemistry\ Intermediate\ 1$

Marking scheme

Section A

1.	D	11.	A
2.	D	12.	A
3.	C	13.	В
4.	D	14.	D
5.	В	15.	D
6.	A	16.	В
7.	В	17.	C
8.	C	18.	C
9.	A	19.	D
10.	В	20.	A

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Marking scheme

Section B

1.	(a)	coal/natural gas/north sea gas/peat/gas		
	(b)	(i) distillation (do not need fractional)	1 mark	
		(ii) Petrol is flammable/burns/catches fire easily	1 mark	
2.	(a)	numbers should read - $C_3H_8O_5NP$ (numbers should be on or below line for mark - any higher lose ½)	1 mark	
	(b)	use up nutrients in the soil		
		or deprives plants of space/light/water/nutrients		
	(c)	fungicide	1 mark	
3.	(a)	Match/compare colour to the colour on the pH chart	1 mark	
	(b)	7	1 mark	
	(c) dissolve (in water)/add to water			
		or wet the pH paper	1 mark	
4.	(a)	Malachite − ½ mark if copper carbonate		
	(b)	6	1 mark	
5.	(a)	going clockwise from top RHS, ½ mark for each label - voltmeter; tin case; paste; copper		
	(b)	(i) to complete the circuit		
		or to allow the paste to conduct		
		or to carry the charge	1 mark	
		(ii) Add iodine.(½) The iodine turns blue/black (½)	1 mark	
6.	(a)	Polymerisation		
	(b)	Put same volume (½) of hot and cold water in two beakers (½) add detergent capsules to each beaker (½) time how long to dissolve/detergent to appear in each beaker (½)		

7.	(a)	Prevents air/oxygen/water reacting/touching metal			1 mark
	(b)	galvanising			1 mark
	(c)	(i) rust indicator			1 mark
		(ii)	copper tin zinc	yes yes no	1 mark
8. (a) A drug			ug		1 mark
	(b)	(i)	x and y lab scale on y c points plott bars drawn minus ½ m	correct (½) red (½)	2 marks
		(ii)	$(2 \times 80) + 4$ [80 + 40] =	40 = 200 : 120 for ½ mark	1 mark
9.	(a)	(i)	carbon diox	xide + water → oxygen + glucose	1 mark
		(ii)	chlorophyll	I	1 mark
	(b)	(i)	increased c	ombustion of fuels or cutting down of forests	1 mark
		(ii)	390 – 420		1 mark
10.	10. (a)		ace the three	metals in order of reactivity	1 mark
	(b) size of pieces of metal or mass of metal or temperature of acid or concentration of acid				1 mark
	(c)	magı	nesium chlori	1 mark	

11. To improve appearance (colouring) (a) to preserve or to add vitamins/minerals aid nutrition to improve flavour 1 mark (b) 2.5 1 mark (c) breaks up oil and grease into droplets helps oil and grease mix/dissolve in water 1 mark (d) phosphorous/P 1 mark 12. 1 mark (a) SO_2 approx 20 (19 – 22) 1 mark (b) (c) acid rain 1 mark

[END OF MARKING INSTRUCTIONS]