

Health and Disease MS

QUESTION 1

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
a)	alcohol - affects the nervous system by slowing down reactions cocaine - a very addictive drug nicotine - the addictive substance in tobacco smoke thalidomide - drug which caused many children to be born with abnormal limbs		4
Total marks			4

QUESTION 2

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
a)		<p>all three correct = 3 marks two correct = 2 marks one correct = 1 mark extra line from a statement cancels the mark</p>	4
b)	<p>any two from:</p> <ul style="list-style-type: none"> <input checked="" type="checkbox"/> keeps us fit / healthy <input checked="" type="checkbox"/> reduces mass / weight / fat <input checked="" type="checkbox"/> metabolic rate increased <input checked="" type="checkbox"/> blood pressure reduced <input checked="" type="checkbox"/> heart disease less likely / heart healthy <input checked="" type="checkbox"/> arthritis less likely <input checked="" type="checkbox"/> reduces cholesterol <input checked="" type="checkbox"/> diabetes less likely 		2
Total marks			6

QUESTION 3

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
a)i)	does not contain drug / chemical	allow eg fake / sugar pill / dummy drug ignore control	1
a)ii)	as control or to see if the effects are psychological or allows blind testing	allow 'to compare (with NRT)' ignore fair test	1
b)i)	gum	allow gum placebo allow placebo	1
b)ii)	high / highest number of participants / people or correct number given ie gum 16706, gum placebo 9319, placebo 16458		1
c)i)	nasal spray		1
c)ii)	highest percentage of people stopped /24% stopped biggest difference between treatment and placebo	allow 'highest by 4%' for 2 marks	1 1
Total marks			7

QUESTION 4

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
a)i)	eye	ignore sight	1
a)ii)	nose / nostril	ignore smell	1
a)iii)	tongue	allow mouth / taste buds ignore taste	1
b)i)	stores more sugar / food / energy or sugar converted to fat	allow sugar builds up (in body) do not allow contains fat ignore more sugar in sugary cola ignore drank more sugar ignore sugar fattening	1
b)ii)	arthritis / diabetes / (high) blood pressure / heart disease	ignore cancer allow colon cancer	1
c)i)	0.5 / half	allow 0.45 – 0.55	1
c)ii)	0.1	for correct answer with or without working if incorrect / no answer then evidence of correct method 0.9+0.8+1.4–3 gains 1 mark or evidence of 3.1 – wrong column	2

		from graph ie 0.5 / 2 / 5/ 6 gains 1 mark	
c)iii)	(high) blood pressure	allow heart disease / hypertension do not allow blocked arteries / cholesterol / diabetes / obesity	1
Total marks			9

QUESTION 5

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
a)	any two from: ☑arthritis ☑diabetes ☑high blood pressure ☑ heart / blood vessel disease	ignore descriptions ignore cholesterol	2
b)	(No) any two from: ☑ patterns for cancer and obesity not identical ☑ data only shows a link ☑ some other factor(s) involved	allow descriptions of differences from graph	2
c)	any two from: ☑increases metabolic rate ☑ exercise needs energy or exercise increases energy used by body ☑ fat (stores) used / broken down or less food / energy converted into body mass / fat	accept increase BMR ignore increased respiration allow fat burned ignore burns energy / calories	2
Total marks			6