

Vaccines and Drugs MS

QUESTION 1

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
a)	antibodies antitoxins antibiotics		1 1 1
b)	any two from: <input type="checkbox"/> measles <input type="checkbox"/> mumps <input type="checkbox"/> rubella / German measles		2
c)	less / low / no chance of getting named /all condition(s) if vaccinated quantitative figure(s) e.g. 5 times less likely to get convulsions	must be comparative	1 1
d)	enzymes genes		1 1
Total marks			9

QUESTION 2

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
a)	any two from: <input type="checkbox"/> resistant to (most) antibiotics <input type="checkbox"/> contagious or easily passed on or reference to open wounds <input type="checkbox"/> patients ill therefore less able to combat disease	virus is neutral	2
b)i)	chloride of lime / hand washing killed bacteria (picked up from corpses)	allow disease / germs / infection / disinfectants	1
b)ii)	people to wash hands after contact with patient so bacteria / pathogen / MRSA not transferred to other patient		1 1
Total marks			5

QUESTION 3

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
a)i)	lives inside cells		1
a)ii)	inactive		1
a)iii)	antibodies		1
b)i)	1950		1
b)ii)	8 (years)		1
b)iii)	any one from: eg <input type="checkbox"/> disease could be reintroduced (from abroad) <input type="checkbox"/> disease would spread if it came back <input type="checkbox"/> protection on holiday abroad <input type="checkbox"/> high proportion of immune people needed to prevent epidemic	disease might come back insufficient	1
Total marks			6

QUESTION 4

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
a)	any three from: vaccine is inactive / dead form of (pathogen) stimulates antibody production stimulates antitoxin production by white cells antibodies kill (pathogen) antitoxins neutralise poisons antibodies quickly produced on reinfection <input type="checkbox"/> reference to ingestion by white cells	allow antigens ignore antibodies remain in blood	3
b)i)	(no) any two from <input type="checkbox"/> sample size small / only 12 <input type="checkbox"/> conclusion based on hearsay from parents <input type="checkbox"/> only 8 parents linked autism to MMR <input type="checkbox"/> no control used		2
b)ii)	(yes) being paid by parents / lawyers		1
Total marks			6

QUESTION 5

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
a)	antibodies	allow antitoxins / memory cells	1
	immune	do not allow antigens ignore protection allow resistant	1
b)i)	fell numerical qualification to zero / nothing / by 100%	allow stopped in 1995	1 1
b)ii)	(no) % vaccination fell or when no vaccination but autism numbers did not fall /stayed high / increased or '(yes) might support it if time lag between vaccination and autism symptoms' / 'time lag for diagnosis'(1) 6 year time lag quantified(1)		1 1
Total marks			6

QUESTION 6

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
a)	measles		1
	mumps		1
	rubella		1
b)	antibodies		1
c)i)	any two from: •fell •then rose • any reasonable amplification eg until 2004 / to 80% •flattens off (between 1999– 2000)		2
c)ii)	eg fear of side effects or cost of vaccine or lack of vaccine or complacency / disease less common		1
Total marks			7

QUESTION 7

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
a)		<p>all three correct = 3 marks</p> <p>two correct = 2 marks</p> <p>one correct = 1 mark</p> <p>extra line from a statement cancels the mark</p>	3
Total marks			3

QUESTION 8

QUESTION	ANSWER	EXTRA INFORMATION	MARKS
a)		<p>1 mark for each correct line</p> <p>mark each line from left hand box</p> <p>two lines from left hand box cancels mark for that box</p>	4
b)i)	ecstasy		1
b)ii)	(no) any one correct difference eg Ecstasy in Class A but least harmful according to scientists	accept reference to figures	1
c)	for pleasure		1
Total marks			7