cannabis –	rats were given a smal very three days betwee human ages 12 to 18.				
	of THC given was rough	nly equivalent to a h	านman smoking o	ne	
A control gro	up of six 'teenage' rats o	did not receive THC	D .		
	s catheters (narrow tubed they were able to self-				
	egan to self-administer l ir daily intake at a certa		after a while, they		
much higher	t had been on THC as ' level than the others. T oin. This pattern contine	hey appeared to be	e less sensitive to		
	nsitivity to the heroin me to increase the risk of a		ake larger doses.	This has	
neroin addiction	vestigation with respec	t to establishing a l	ink between cann	abis smokir	ng and
heroin addiction	vestigation with respec n in humans.	t to establishing a l	ink between cann	abis smokir	ng and
neroin addiction	vestigation with respec n in humans.	t to establishing a l	ink between cann	abis smokir	ng and
neroin addiction	vestigation with respec n in humans.	t to establishing a l	ink between cann	abis smokir	ng and
neroin addiction	vestigation with respec n in humans.	t to establishing a l	ink between cann	abis smokir	ng and
neroin addiction	vestigation with respec n in humans.	t to establishing a l	ink between cann	abis smokir	ng and
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neroin addiction	vestigation with respec n in humans.	t to establishing a l	ink between cann	abis smokir	ng and
neroin addiction	vestigation with respec n in humans.	t to establishing a l	ink between cann	abis smokir	ng and

Clas	s A drugs include heroin and cocaine. Class A drugs are very addictive.	
(a)	It is difficult to stop using addictive drugs.	
	Explain why.	
		(2)

Q2.

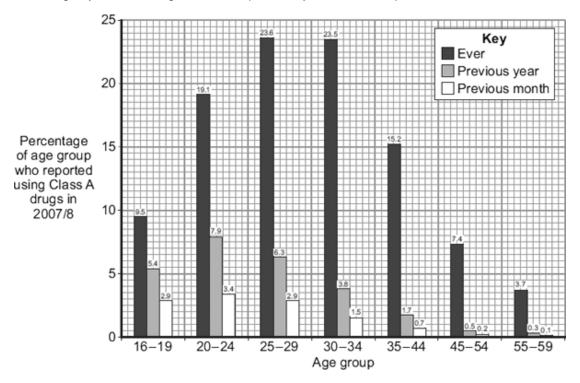
Some recreational drugs are dangerous.

(b) As part of the British Crime Survey, a large, random selection of the UK population is interviewed in their own home about drug use.

People in the sample:

- answer questions about drug use
- answer questions on a lap top
- do not give their names.

The bar chart shows the percentages of people aged 16-59 by age group who reported using any Class A drug ever, in the previous year and in the previous month.



i)	Describe how the percentage of people who have ever used Class A drugs is related to age.

(2)

	(ii)	The percentage of people who reported using Class A drugs in the previous month is highest amongst 16 -29 year-olds.	
		Suggest two reasons for this.	
		1	
		2	
		(2)
	(iii)	The data in the bar chart is unlikely to be completely accurate.	
		Explain why.	
		(2	<u>'</u>)
		(Total 8 marks)
Q3.	Many	recreational drugs harm the body.	
	Some peo	ple become dependent on a recreational drug.	
	What happ	pens to people's bodies when they become dependent on a drug?	
		(Total 2 marks)

Q4.	[Drugs I	must be trialled before the drugs can be used on patients.	
	(a)	(i)	Before the clinical trials, drugs are tested in the laboratory. The laboratory trials are not trials on people.	
			What is the drug tested on in these laboratory trials?	
				(1)
		(ii)	Drugs must be trialled before the drugs can be used on patients.	
			Give three reasons why.	
				(3)
	(b)	Read	d the information about cholesterol and ways of treating high cholesterol levels.	(-)
		Too the f	and inherited factors affect the level of cholesterol in a person's blood. much cholesterol may cause deposits of fat to build up in blood vessels and reduce low of blood. This may cause the person to have a heart attack. le drugs can lower the amount of cholesterol in the blood.	
			body needs cholesterol. Cells use cholesterol to make new cell membranes and e hormones. The liver makes cholesterol for the body.	
		Som	e drugs can help people with high cholesterol levels.	
		Peor mus	ins block the enzyme in the liver that is used to produce cholesterol. ble will normally have to take statins for the rest of their lives. Statins can lead to cle damage and kidney problems. Using some statins for a long time has caused high bers of deaths.	
		bloo	lesterol blockers reduce the absorption of cholesterol from the intestine into the d. lesterol blockers can sometimes cause problems if the person is using other drugs.	

evaluate the use of the two types of drug for a person with high cholesterol levels	S.
	(6) (Total 10 marks)

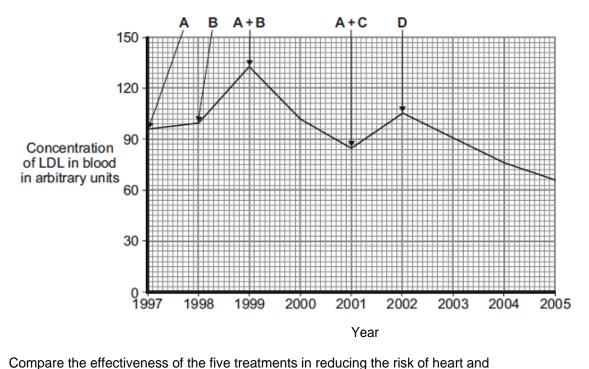
Q5. LDL is one form of cholesterol found in the blood.

People with a high concentration of LDL in their blood may be treated with drugs called statins.

A high concentration of LDL cholesterol in the blood may result in an increased risk of heart and circulatory diseases.

The graph shows the effects of the treatment of one person with four different statins, **A**, **B**, **C** and **D**, over a period of 8 years. The arrows show when each new treatment was started.

Each treatment was continued until the next treatment was started.



circulatory diseases for this person.

(Total 4 marks)

Drugs are used to treat cardiovascular diseases (diseases of the heart and blood vess				
(a) What is a drug?				
(b) People can be treated for cardiovascular	diseases with statins or aspirin.			
Information about these two drugs is given in the table.				
STATINS	ASPIRIN			
Statins are only available on prescription from doctors.	Aspirin can be bought over the counter. Treatment with aspirin costs up to £15 per year.			
In studies, 30 000 patients were monitored over several years. Statins were found to reduce the rate of non-fatal heart attacks by about 30%.	In a study of 1000 patients, aspirin was found to cause bleeding of the stomach in around 0.5% of patients and there was a slightly increased risk of poor blood clotting at cuts.			
Approximately 0.1% of the patients suffered serious muscle damage and 0.01% suffered kidney failure.	There was a slightly increased risk of damage to the blood vessels in the brain in older patients.			
Statins reduce blood cholesterol which builds up in the walls of blood vessels. The cost of treating patients with statins can vary between £150 and £500 per year, depending on the type of cardiovascular disease being treated.	Aspirin was found to reduce the risk of nonfatal heart attacks by 31%.			

(1)

give your recommendation

use information from the table to support your recommendation by making comparisons of the two drugs.

Would you recommend statins or aspirin for the treatment of cardiovascular diseases?

In your answer you should:

(5)

(Total 6 marks)