

Drugs

Question Paper 1

Level	IGCSE
Subject	Biology (0610/0970)
Exam Board	Cambridge International Examinations (CIE)
Topic	Drugs
Sub-Topic	Drugs
Booklet	Question Paper 1

Time Allowed: 35 minutes

Score: /29

Percentage: /100

Grade Boundaries:

9	8	7	6	5	4	3	2	1
>85%	75%	68%	60%	53%	48%	40%	33%	<25%



1 Which organ is most often damaged by regularly drinking too much alcohol?

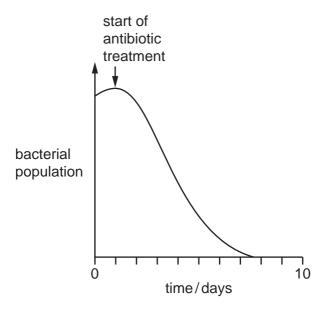
	A	neart
	В	liver
	С	pancreas
	D	stomach
2	W	hich organ breaks down heroin and alcohol?
	Δ	h bladder
	В	B brain
	C	kidney
	D) liver
3	٧	Vhat is a result of the excessive intake of alcohol?
	A	improved self-control
	В	liver damage
	C	reduced chance of HIV infection
	D	shorter reaction time
4	W	hich statement about antibiotics is not correct?
	A	Antibiotics are used to treat diseases caused by viruses.
	В	Some antibiotics are produced by fungi.
	C	Some bacteria are resistant to antibiotics.
	D	When taking antibiotics for an infection, the treatment should be completed.



5 Possible effects of drug abuse include

		1	addiction,							
		2	reduced s		rol,					
		3	severe wi	thdrawa	ıl symptoms.					
	Which effects may occur as a result of drinking too much alcohol?									
	A 1, 2 and 3 B 1 and 2 only C 1 only D 2 and 3 only									
	^	1, 2 and	<i>a</i> 5	Б	r and 2 only	C	1 Offity		2 and 6 only	
6	Wha	at is not a	n effect of	consum	ption of alcoho	1?				
	A	liver dama	age							
	В	loss of mu	uscle coord	lination						
	С	poor self	control							
	D	stimulatio	n of the ne	rvous sy	/stem					
7	Αv	voman ha	s been smo	okina he	eavily for many	vears	S.			
•		A woman has been smoking heavily for many years. Which statement could not be correct?								
	A									
	В		addicted to							
	С				ve been destro	wed				
	D				ngs is reduced	-				
		1110 001	nado aroa (31 ti 10 10	1190 10 1000000	•				
0	T L				file e lele e el efe		!	41		
8	THE	e oxygen (carrying ca	pacity o	Title blood of s	STHOKE	ers is iess	ınar	that of non-smokers.	
	Whi	ich compo	nent of cig	arette s	moke causes t	his?				
	Α	carbon m	nonoxide							
	В	nicotine								
	С	smoke pa	articles							
	D	tar								

9 The graph shows the effect of an antibiotic treatment on bacterial populations in the blood.



What conclusion can be drawn from the graph?

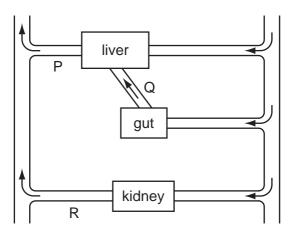
- **A** Antibiotics are effective against viral and bacterial infections.
- **B** Antibiotics cause reduction division in bacteria.
- C Antibiotics take ten days to kill all bacteria.
- **D** Before the start of antibiotic treatment the bacterial population was rising.
- 10 Which two statements describe the effects of smoking cigarettes?
 - 1 Cilia beat more quickly.
 - 2 Cilia beat more slowly.
 - 3 Goblet cells stop producing mucus.
 - 4 Goblet cells produce more mucus.
 - **A** 1 and 3 **B** 1 and 4 **C** 2 and 3 **D** 2 and 4



11 What are the effects of tobacco smoke on the gas exchange system?

	mucus in the airways	chance of lung infection
Α	decreased	decreased
В	decreased	increased
С	increased	decreased
D	increased	increased

12 The diagram represents some human organs and their blood vessels.



Immediately after taking an alcoholic drink, how would the levels of alcohol compare in blood vessels P, Q and R?

	Р	Q	R
Α	high	medium	high
В	medium	high	low
С	low	low	medium
D	high	low	low



12	In which	nart of	the had	v do druge	break down?
13		partor	tile bod	y uo urugo	DICAN GOWII:

- **A** brain
- **B** heart
- C kidneys
- **D** liver
- 14 What are the effects of smoking on the gas exchange system?

	mucus in the airways	chance of lung infection
Α	decreased	decreased
В	decreased	increased
С	increased	decreased
D	increased	increased

15 Where do the breakdown of drugs and the storage of urine occur?

	breakdown of drugs	storage of urine
Α	kidney	muscles
В	liver	bladder
С	liver	kidney
D	muscles	liver

- 16 In which organ is alcohol broken down?
 - **A** brain
 - **B** kidney
 - **C** liver
 - **D** stomach



Why does this cause the body temperature to drop?

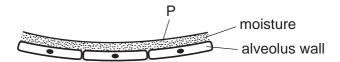
17 Capillaries near the surface of the skin become wider after drinking large amounts of alcohol.

	Α	It allows heat to be lost rapidly from the skin.
	В	It causes vasoconstriction.
	С	It prevents vasodilation.
	D	It stops the person from sweating.
18		lia are present on the surface of the cells of the trachea. The cilia of a smoker work less ectively than those of a non-smoker.
	Hov	w does this affect the smoker?
	Α	Less carbon dioxide is released.
	В	Less oxygen is released.
	С	More bacteria enter the lungs.
	D	More mucus is removed from the lungs.
19	V	Vhich component of cigarette smoke is most likely to cause lung cancer?
	Α	carbon dioxide
	В	carbon monoxide
	С	nicotine
	D	tar



20 The diagram shows the gas exchange surface of a person who has just smoked a cigarette.

Substance P can cause cancer.



What is substance P?

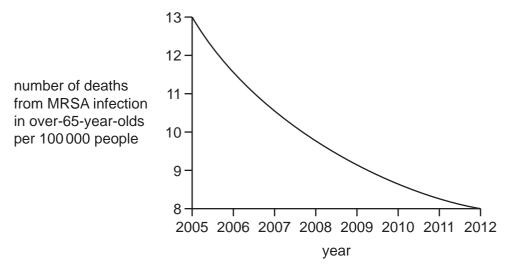
- A carbon dioxide
- B carbon monoxide
- **C** nicotine
- **D** tar

21 Which row states the possible harmful effects of tobacco smoke?

	cancer	liver damage	coronary heart disease
Α	✓	✓	х
В	✓	x	✓
С	x	✓	X
D	x	x	✓



22 The graph shows the number of deaths from MRSA infection per 100 000 people in a population of over-65-year-olds from 2005 to 2012.



What is a possible explanation for the changes shown in the graph?

- A a decrease in the size of the population of over-65-year-olds
- **B** antibiotics do not affect viruses
- **C** more effective antibiotics are being used to treat infected people
- **D** over-65-year-olds are immune to MRSA infection
- 23 Which statement about microorganisms is correct?
 - A Bacteria are killed by hydrochloric acid in the duodenum.
 - **B** Bacteria can become resistant to antibiotics.
 - **C** Bacterial infection and viruses are treated with antibiotics.
 - **D** Bacteria produce sugars that cause tooth decay.



24	Which	disease	can be	caused b	y smoking	tobacco?
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- A cholera
- **B** COPD
- C HIV
- **D** scurvy
- 25 Which row shows the effects of excessive alcohol consumption?

	reaction time	self-control	anti-social behaviour
Α	quicker	increased	increased
В	quicker	reduced	increased
С	slower	increased	decreased
D	slower	reduced	increased

26 The number of bacteria resistant to antibiotics is increasing.

What has contributed to this situation?

- A choosing the antibiotic carefully to match the strain of bacterium
- B not completing the course of prescribed antibiotics
- **C** tracing, testing and treating people who have been in contact with the infected person
- **D** using antibiotics only when essential



27	Per	Penicillin is an antibiotic that kills bacteria by preventing them from forming cell walls.		
	Why does penicillin not affect viruses?			
	Α	Viruses become resistant to penicillin.		
	В	Viruses do not contain cytoplasm.		
	С	Viruses do not have cell walls.		
	D	Viruses reproduce very rapidly.		

28 A patient is suffering from an infection. Her doctor prescribes an antibiotic.

One week later the infection is still present.

What could be the reason for this?

- **A** It was the correct antibiotic for this infection.
- **B** The pathogen was a virus.
- **C** The pathogen was resistant to the antibodies.
- **D** The patient was resistant to the antibiotic.
- 29. What results from the destruction of cilia in the trachea due to smoking?
 - A Cilia cannot filter bacteria.
 - **B** Cilia cannot trap dust.
 - **C** Mucus cannot be manufactured.
 - **D** Mucus cannot be carried towards the throat.