

Past Paper questions unit 15 - drugs

1 Define the term drug..... (2)

2 (a) Table 2.1 shows the percentage of haemoglobin that is inactivated by carbon monoxide present in the blood of taxi drivers in a city.

Table 2.1

city taxi drivers		percentage of haemoglobin inactivated by carbon monoxide
day time drivers	smokers	5.7
	non-smokers	2.3
night time drivers	smokers	4.4
	non-smokers	1.0

(i) The carbon monoxide in the blood of these taxi drivers comes from two sources. One source is from vehicle exhaust fumes. Name the other source of carbon monoxide that may be inhaled by drivers.
[1]

(ii) Using data from Table 2.1, suggest which of these two sources contributes most to the inactivation of the haemoglobin. Explain your choice.
 source

..... [3]
 explanation

(iii) Calculate the difference in the percentage of haemoglobin inactivated by carbon monoxide in day and night time taxi drivers and suggest a reason for the difference.
 difference

..... [2]
 reason

(b) (i) Name two other harmful components of cigarette smoke, apart from carbon monoxide. For each, describe an effect it can have on the body of a person who smokes.

1. component

 effect

2. component

 effect

[4]
 (ii) Suggest a possible effect that might happen to the fetus of a pregnant woman who smokes.
 [1]

[Total: 11]

3 Which of the following diseases are not associated with smoking?

- emphysema, hay fever, diabetes, lung cancer, bronchitis, stomach ulcers, bladder cancer,
- arterial disease, tuberculosis, coronary thrombosis

4 (a) Match the following descriptions to the terms (i) 'drug tolerance', (ii) 'drug dependence' :

A - If the drug is not taken, there are physical withdrawal symptoms.

B - A steadily increasing dose of the drug is needed to achieve an acceptable effect.

(b) Which of these conditions is also known as 'addiction'?

5 Name two stimulant drugs and state the undesirable side-effects of each.

6 (a) What effect does alcohol have on reaction time?

(b) What other short-term effects does alcohol have?

(c) What long-term effects can result from an excessive alcohol intake?

7 If a woman thinks she is pregnant she should

(a) take no more than three standard alcoholic drinks per day

(b) take no more than one standard alcoholic drink per day

(c) take no more than five standard alcoholic drinks per week

(d) take no alcoholic drinks at all.

8.a) Drugs such as heroin restrict the movement of impulses across synapses. Users can become addicted to heroin. When users stop taking heroin they may experience withdrawal symptoms.

State **two** withdrawal symptoms that heroin users may experience.

1

2 [2]

b) Suggest why heroin abuse may increase criminal activity.

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.....

..... [2]