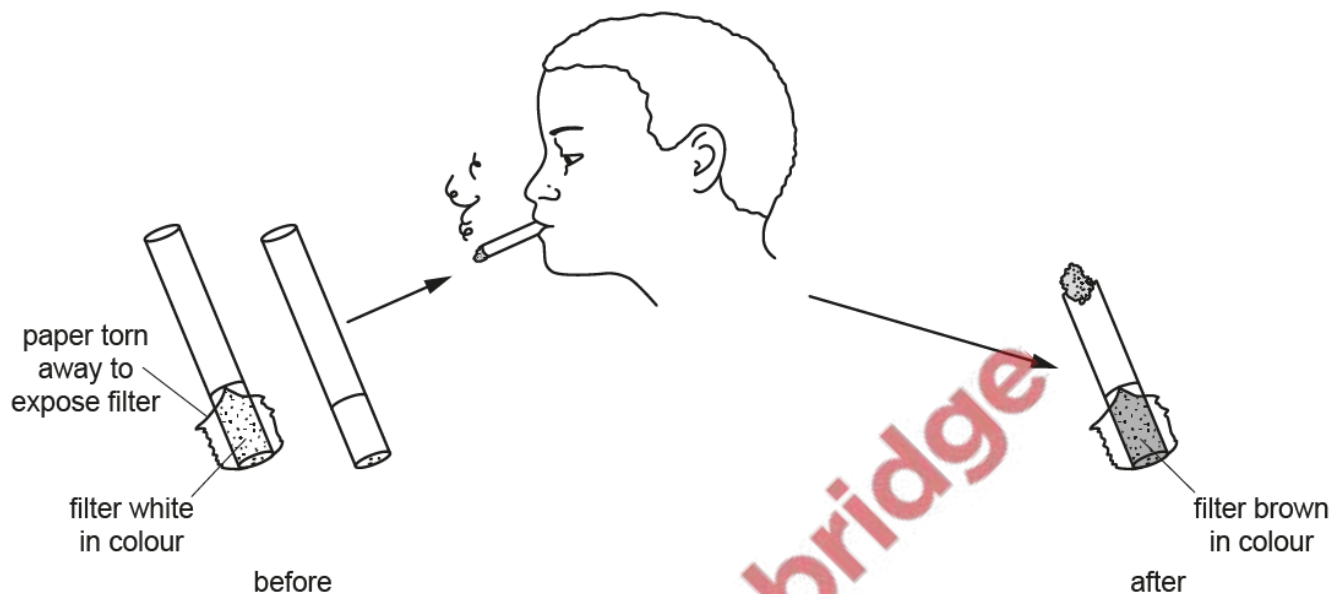


1. Nov/2020/Paper_21/No.4

The diagram shows two identical cigarettes before they have been smoked. In one of them, the paper round the filter has been torn away to expose the filter beneath. It also shows a cigarette after it has been smoked, again with its filter exposed.



Tar is the chemical which turns the filter brown in colour.

(a) State **two** harmful effects of tar.

- 1
- 2

[2]

(b) (i) Name **two** other chemicals produced by cigarettes when they are smoked and, for each, state **one** of its harmful effects.

chemical 1.

harmful effect

chemical 2.

harmful effect

[4]

(ii) Describe how these chemicals can pass from a cigarette to the fetus of a pregnant woman.

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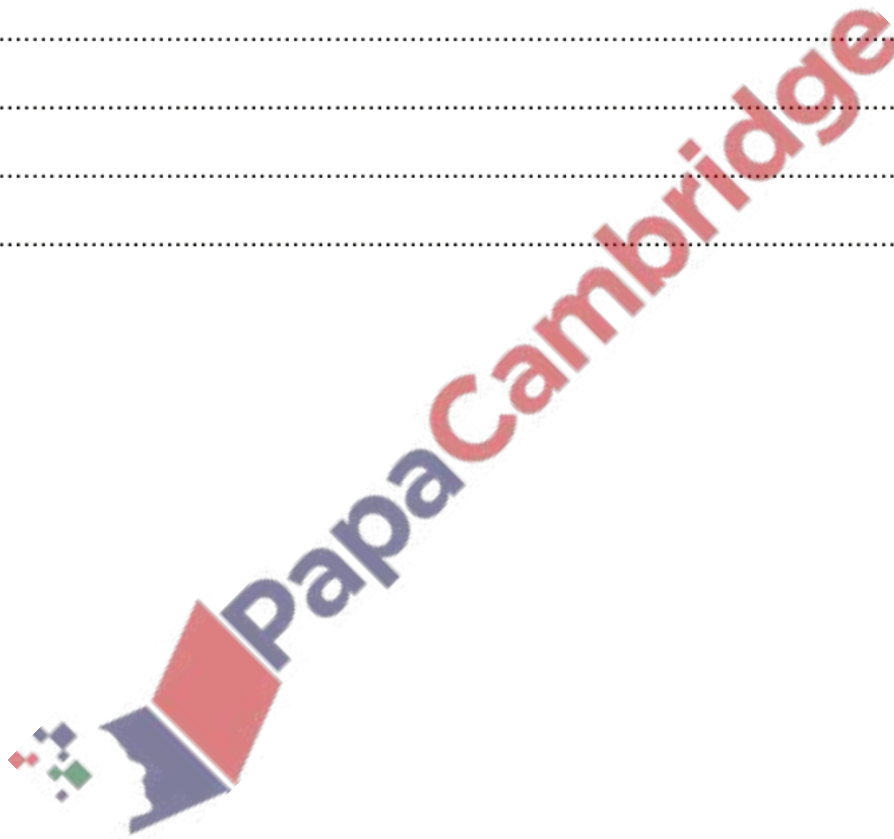
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..... [4]

[Total: 10]



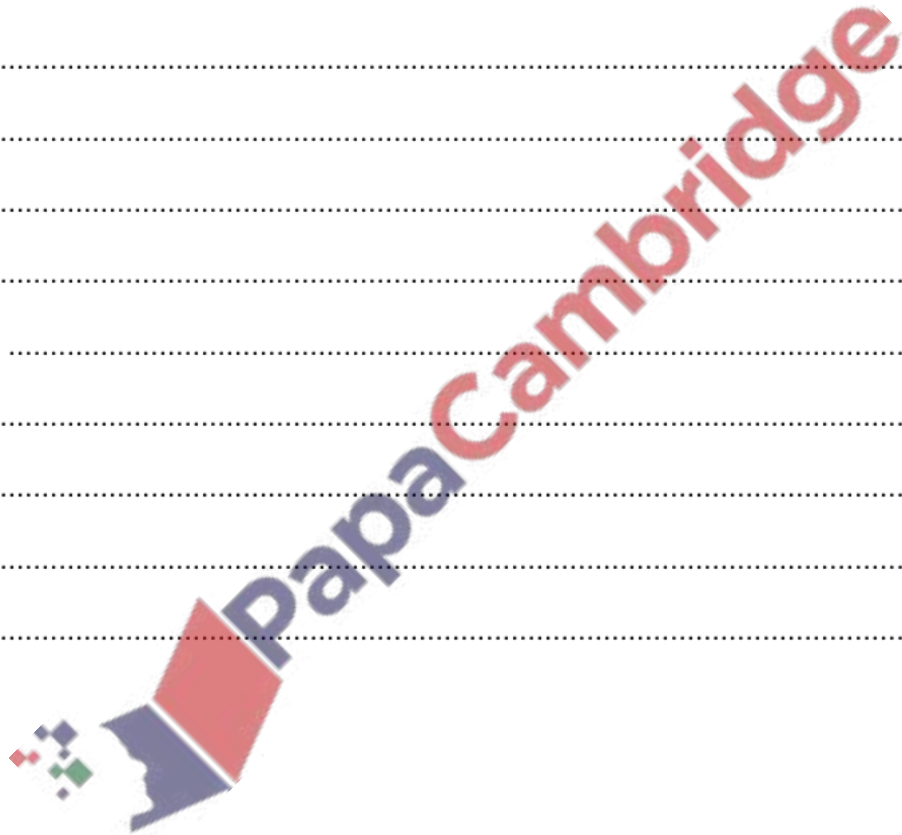
(a) Suggest why a car driver who is driving under the influence of alcohol or heroin is more likely to have an accident than a driver who is free of these drugs.

.....
.....
.....
..... [3]

(b) Describe other harmful effects of these drugs on people who use them for long periods of time.

alcohol
.....
.....
.....

heroin
.....
.....
.....



[7]

[Total: 10]