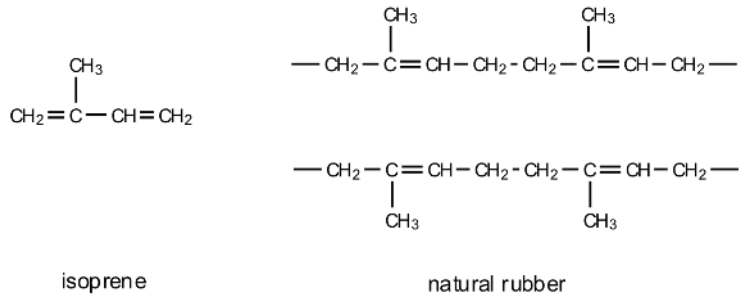


0	1
---	---

Natural rubber is a soft material obtained from trees. It is a polymer of isoprene.

The diagram shows the structure of an isoprene molecule as well as the structure of the molecules in natural rubber.



0	1
---	---

1
---

What is the molecular formula of isoprene?

[1 mark]

.....

0	1
---	---

2
---

What part of the structure of isoprene allows it be polymerised?

[1 mark]

.....

0	1
---	---

3
---

Suggest a likely name for the polymer in natural rubber.

[1 mark]

.....

0	2
---	---

The diagram below shows the simplified structure of a biological monomer.



0	2
---	---

1
---

What is the name of this type of monomer?

[1 mark]

.....

0	2
---	---

2
---

What is the general name for the polymers formed from this monomer?

[1 mark]

.....

0	2
---	---

3
---

In the box below, draw a section of the polymer formed showing at least 2 repeat units.

[3 marks]

(Total 8 marks)

End