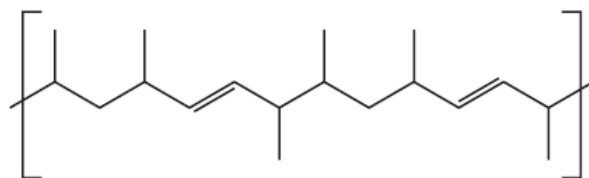


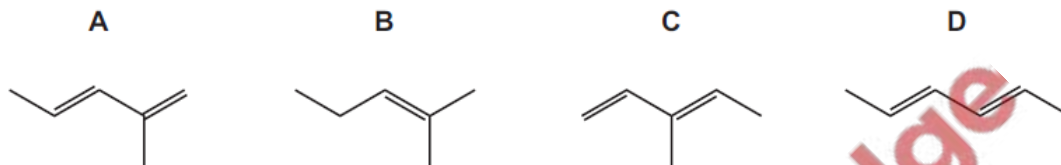
**1. June/2022/Paper\_11/No.39**

The diagram shows a section of an addition polymer formed from two different monomers.



One of the monomers is propene.

What is the other monomer?



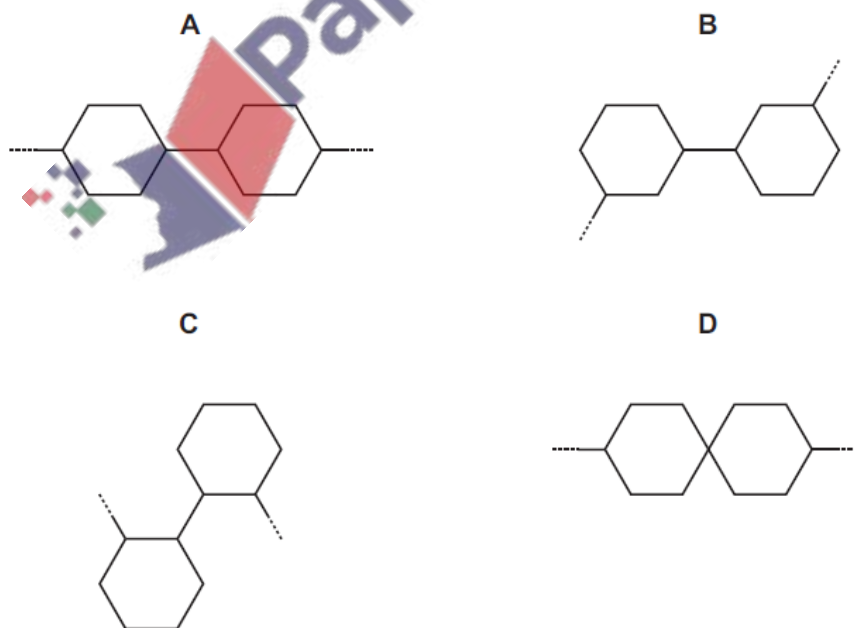
**2. June/2022/Paper\_12/No.39**

Cyclohexene, as shown in the diagram, can form an addition polymer.

cyclohexene



Which structure represents a section of the polymer?



3. June/2022/Paper\_13/No.40

One molecule of an addition polymer containing 2000 repeat units has an  $M_r$  of 112 000.

The polymer molecule contains chiral centres.

What is a possible monomer for this polymer?

- A  $\text{CH}_2=\text{CHCH}_3$
- B  $\text{CH}_2=\text{C}(\text{CH}_3)_2$
- C  $\text{CH}_2=\text{CHCH}_2\text{CH}_3$
- D  $\text{CH}_2=\text{CHCH}_2\text{CH}_2\text{CH}_3$

4. June/2022/Paper\_22/No.4(c)

(c) X is an addition polymer.

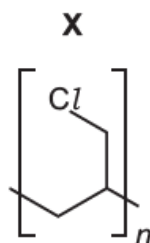


Fig. 4.3

(i) Draw the monomer of X.

[1]

(ii) Suggest one reason why the disposal of items made from X is difficult.

..... [1]