

**Questions**

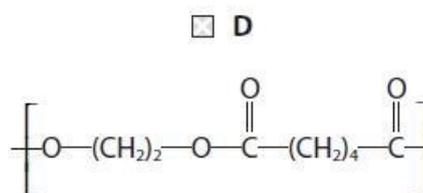
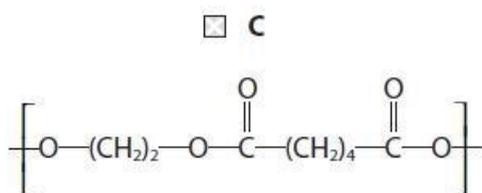
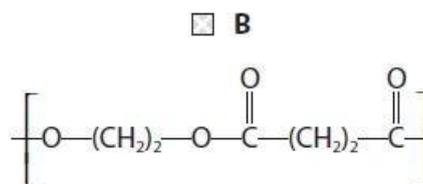
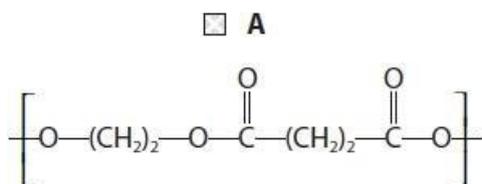
Q1.

This is a question about polymers.

A condensation polymer can be made from ethane-1,2-diol and butanedioic acid.

Which is the repeat unit for this polymer?

(1)



(Total for question = 1 mark)

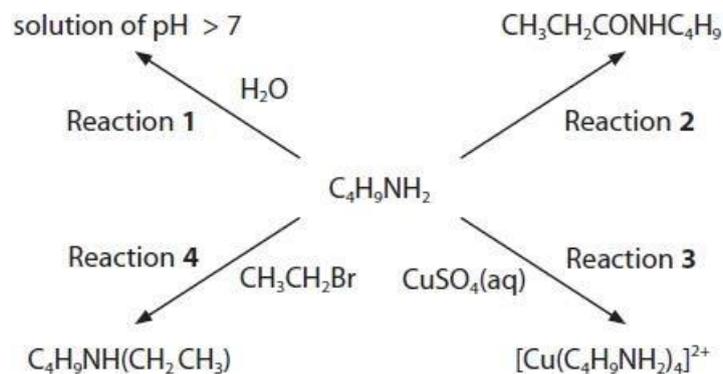


Q2.

Answer the question with a cross in the box you think is correct . If you change your mind about an answer, put a line through the box and then mark your new answer with a cross .

This question is about the amines butylamine, $C_4H_9NH_2$, and phenylamine, $C_6H_5NH_2$.

The reaction scheme shows some reactions of butylamine, a primary amine.



What is seen when excess butylamine is used in Reaction 3?

(1)

- A blue solution
- B blue precipitate
- C yellow solution
- D yellow precipitate

(Total for question = 1 mark)