Questions

Q1.

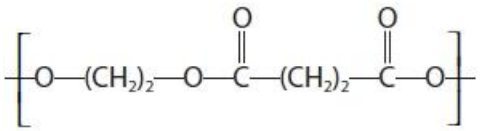
This is a question about polymers.

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

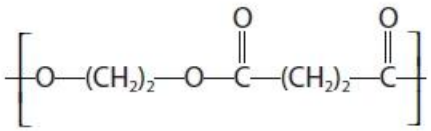
Which is the repeat unit for this polymer?

(1)

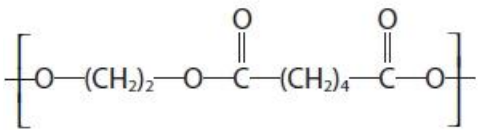
☒ **A**



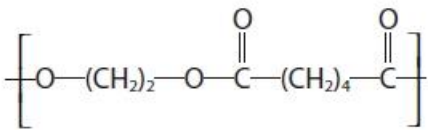
☒ **B**



☒ **C**



☒ **D**



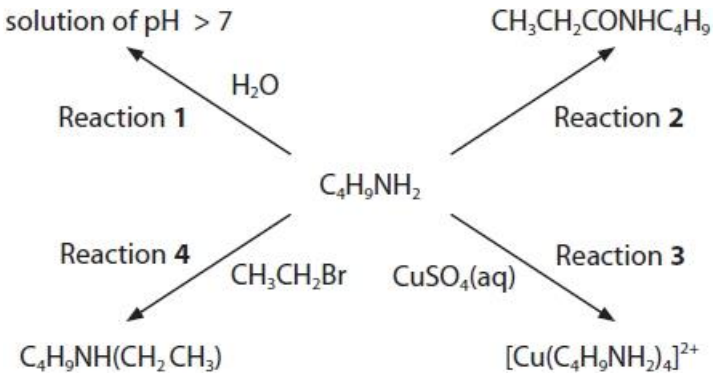
(Total for question = 1 mark)

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

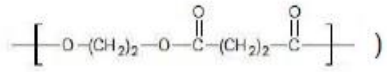
☒ **C** yellow solution

☒ **D** yellow precipitate

(Total for question = 1 mark)

Mark Scheme

Q1.

Question Number	Answer	Mark
	The only correct answer is B ( **)** ***A*** *is not correct because there is an additional oxygen atom in the repeat unit* ***C*** *is not correct because there is an incorrect number of CH_2 groups in one of the monomers and there is an additional oxygen atom in the repeat unit* ***D*** *is not correct because there is an incorrect number of CH_2 groups in one of the monomers*	**(1)**

Q2.

Question Number	Answer	Mark
	The only correct answer is A (blue solution) **B** *is incorrect because the product is not a precipitate* **C** *is incorrect because the product is not yellow* **D** *is incorrect because the product is neither yellow nor a precipitate*	**(1)**