

Time : 18 Minutes

(c) Identify a suitable reagent or combination of reagents for Step 4. Draw the repeating unit of the polymer formed by reaction of 1,4-diaminobenzene with pentanedioic acid.

[illegible]

(6)

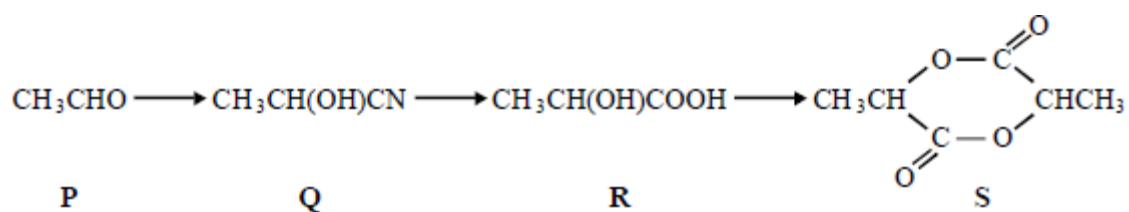
(c) Identify a suitable reagent or combination of reagents for Step 4. Draw the repeating unit of the polymer formed by reaction of 1,4-diaminobenzene with pentanedioic acid.

(3)

(Total 15 marks)

Q2.

This question refers to the reaction sequence below.



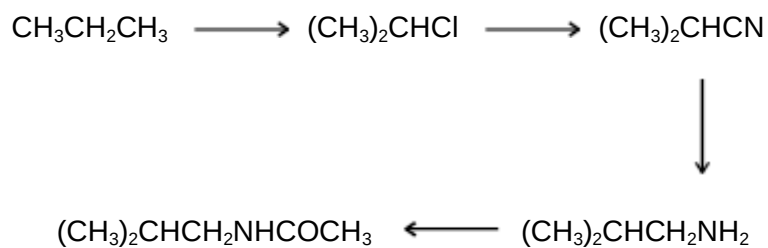
Which one of the following is **not** involved in the reaction sequence?

- A** esterification
- B** hydrolysis
- C** nucleophilic addition
- D** reduction

(Total 1 mark)

Q3.

Which one of the following types of reaction is **not** involved in the above sequence?

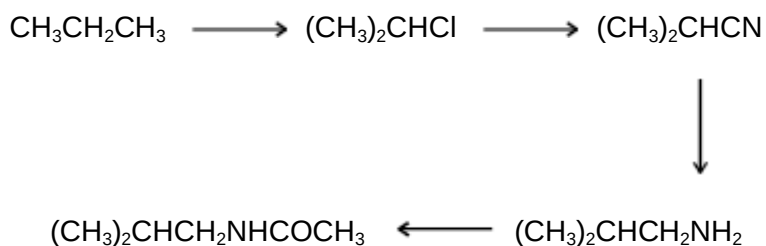


- A halogenation
- B acylation
- C reduction
- D oxidation

(Total 1 mark)

Q4.

Which one of the following types of reaction mechanism is **not** involved in the above sequence?



- A free-radical substitution
- B nucleophilic substitution
- C elimination
- D nucleophilic addition-elimination

(Total 1 mark)