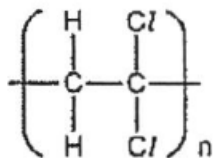


O Level Pure Chemistry MCQs

Organic Chemistry Test 10.0

Q1

The diagram shows the structure of a polymer, poly(dichloroethene).



Which statement about the polymer is correct?

A Hydrogen chloride is formed as a side product during the polymerisation reaction to form poly(dichloroethene).

B The monomer is $\begin{array}{c} \text{Cl} \quad \text{H} \\ | \quad | \\ \text{C}=\text{C} \\ | \quad | \\ \text{Cl} \quad \text{H} \end{array}$.

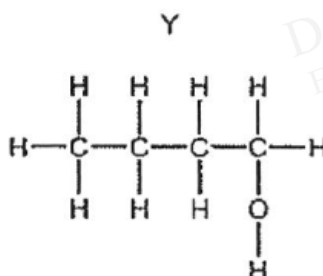
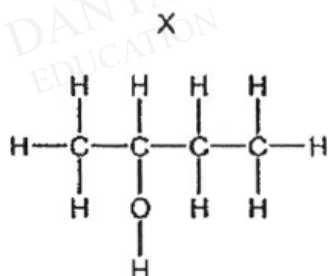
C The monomer is $\begin{array}{c} \text{H} \quad \text{Cl} \\ | \quad | \\ \text{C}=\text{C} \\ | \quad | \\ \text{Cl} \quad \text{H} \end{array}$.

D The polymer has a lower melting point than the monomer.

Q2

Which of the following statements about alcohols are correct?

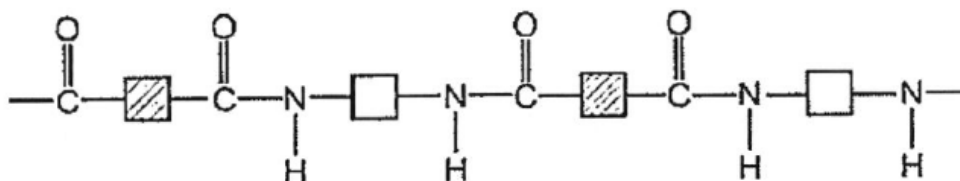
- 1 Alcohols dissociate in water to form OH^- ions.
- 2 Ethanol can be formed from ethene using yeast as a biological catalyst.
- 3 Methanol can be oxidised to methanoic acid using acidified potassium manganate(VII).
- 4 The following alcohols, X and Y are isomers.



- A** 1 and 2 only
B 1 and 3 only
C 2 and 4 only
D 3 and 4 only

Q3

Professor Zee has discovered a polymer with the following structure.



Four terms could be used to describe the polymer:

- 1 addition polymer
- 2 condensation polymer
- 3 polyamide
- 4 polyester

Which two terms could be applied to the newly discovered polymer?

- A 1 and 3 only
- B 1 and 4 only
- C 2 and 3 only
- D 2 and 4 only

Q4

Which compound has molecular formula C_3H_8O ?

- A ethane
- B ethanoic acid
- C propanol
- D propanoic acid

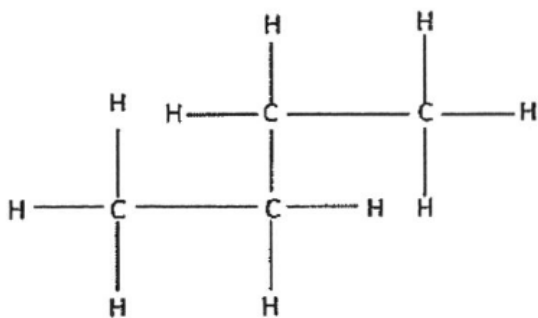
Q5

What reagents are needed to convert ethanol to ethanoic acid?

- A warm with acidified potassium manganate (VII)
- B 37°C , yeast and air-tight
- C add to sodium carbonate solution
- D hydrogen gas, nickel as catalyst

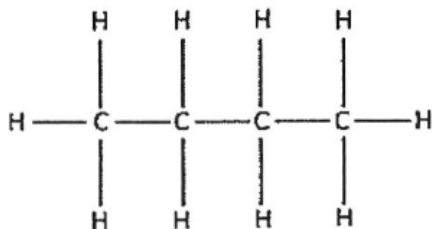
Q6

The molecular structure of a hydrocarbon is shown below.

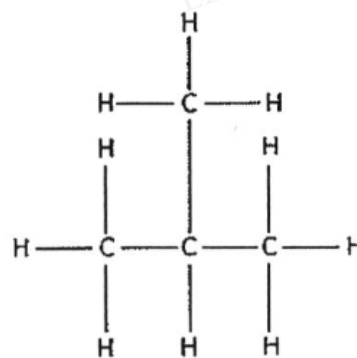


Which structure is an isomer of this hydrocarbon?

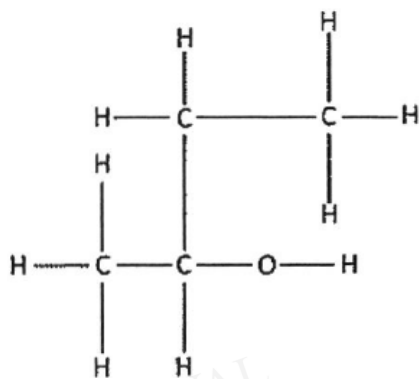
A



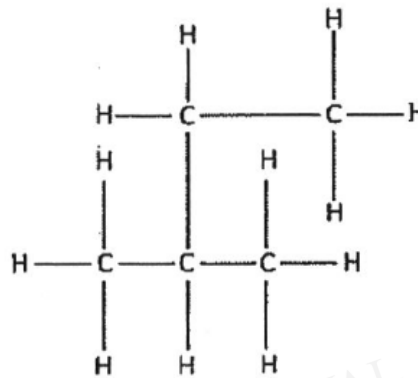
B



C



D



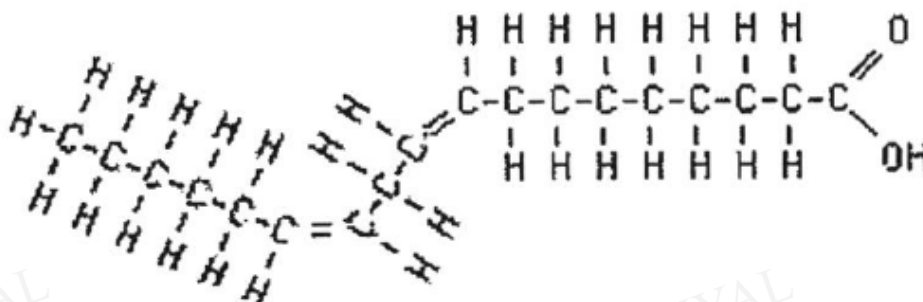
Q7

Which of the following similarities and differences between ethene and poly(ethene) are correct?

	Similarity	Difference
A	Products of combustion	Reaction with bromine
B	Reaction with bromine	Boiling point
C	Relative molecular mass	Electrical conductivity
D	Electrical conductivity	Products of combustion

Q8

The diagram below shows the structure of an organic compound.

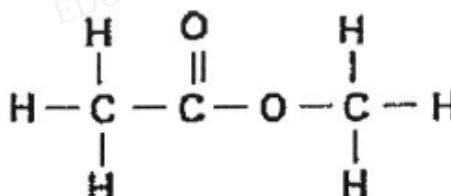


Which statement about this organic compound is true?

- A It is an alcohol.
- B It is a hydrocarbon.
- C It is a macromolecule.
- D It is a polyunsaturated compound.

Q9

An ester has the structure as shown.



Which compounds form the ester above?

- A ethanol and methanoic acid
- B ethanol and ethanoic acid
- C methanol and ethanoic acid
- D methanol and methanoic acid

Q10

Which of the following statements is not true about nylon?

- A It is formed by condensation polymerization.
- B The monomers are linked by amide linkages.
- C It is non-biodegradable and causes pollution.
- D One of its monomers is an alcohol.

Answers

Organic Chemistry Test 10.0

Q1 B

Q2 D

Q3 C

Q4 C

Q5 A

Q6 B

Q7 A

Q8 D

Q9 A

Q10 D

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