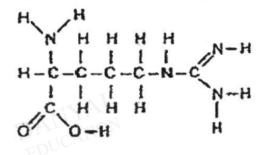
O Level Pure Chemistry MCQs

Organic Chemistry Test 9.0

Q1

Below is a diagram of the amino acid, arginine.



Which of the following statements about arginine is true?

- A It reacts with magnesium to form hydrogen gas.
- B It forms an addition polymer with other amino acids.
- C It readily decolourises acidified potassium manganate(VII).
- D It undergoes polymerisation with other amino acids to form a polymer with the same linkage as *Terylene*.

Q2

A mixture of four gases, methane, ethane, propane and butane is cooled until the first drop of liquid is formed.

What compound is most likely to be present in this drop?

A butane B ethane C methane D propane

Q3

The alcohol C₄H₉OH, on oxidation with acidified potassium dichromate(VI), gives a carboxylic acid X.

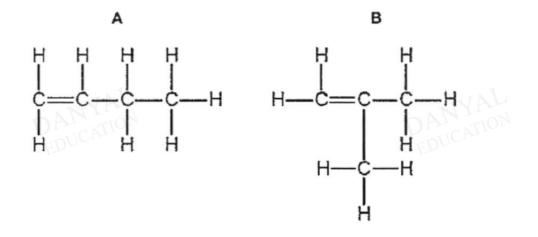
Which acid is X?

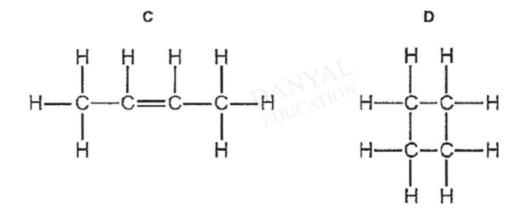
A	C₄H₀COOH	в	C ₃ H ₇ COOH	с	C ₂ H ₅ COOH	D	CH3COOH
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Q4

Substance X has a molecular formula C₄H₈ and does not undergo addition polymerisation.

What is the structural formula of X?





Q5

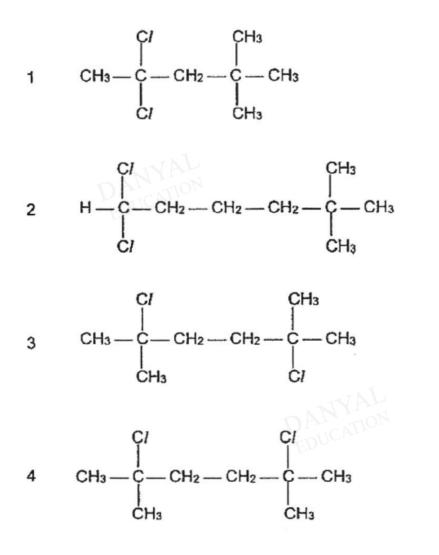
Propanol and ethanoic acid react to form a compound X. DANYAL

What is the formula of compound X?

- C2H5COOC2H5 А
- CH3COOC2H5 в
- C2H5COOC3H7 С
- CH3COOC3H7 D

Q6

Study the four structures of an organic compound.



Which two structures are isomers?

A 1 and 2

B 2 and 3

C 3 and 4 D 2, 3 and 4

Q7

A compound S contains four carbon atoms. It gives negative results with the following tests.

Test 1 : Treating S with sodium hydrogencarbonate solution.

Test 2 : Treating S with bromine solution.

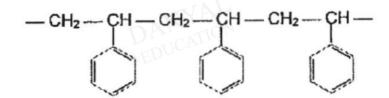
Test 3 : Warming S with acidified potassium dichromate (VI) solution.

Which structural formula can S be?

- A CH₃CH₂CH=CH₂
- B CH₃CH₂CH₂CH₂OH
- C CH₃CH₂CH₂COOH
- D CH₃CO₂CH₂CH₃

Q8

The diagram shows the repeating unit of a polymer.

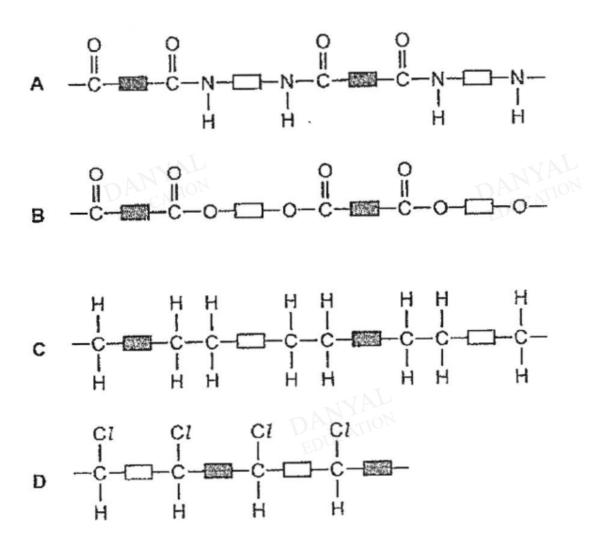


Which of the following statements about the polymer are correct?

- 1. The monomers are unsaturated.
- The empirical formula of the monomer is the same as the empirical formula of its polymer.
- The melting point of the monomer is different from the melting point of its polymer.

A 1 and 2	В	1 and 3	C 2 and 3	D	1, 2 and 3

Which diagram represents the structure of nylon?



Q10

How can alkenes be manufactured?

- by the addition of hydrogen to unsaturated vegetable oil А EDUCATION
- by the combustion of alkanes в
- by the cracking of hydrocarbons С
- by polymerisation reactions D

<u>Answers</u>

Organic Chemistry Test 9.0

Q1 A Q2 A Q3 B Q4 D Q5 D Q6 B Q7 D Q8 D Q9 A Q10 C