

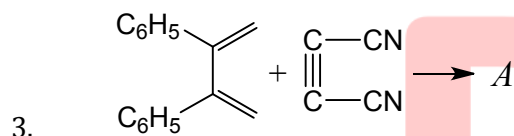
Topic :-HYDROCARBONS

1. Which among the following is aromatic?

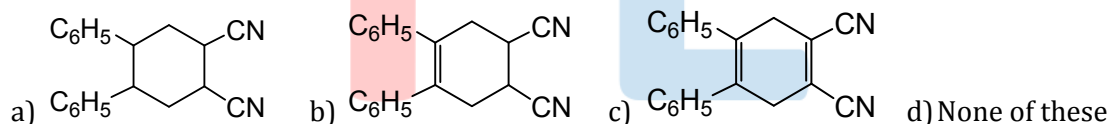


2. The neutral wax called Ozokerite found near petroleum well is a mixture of:

- a) Solid halides b) Solid hydrocarbons c) Solid alcohols d) None of these



Identify A:



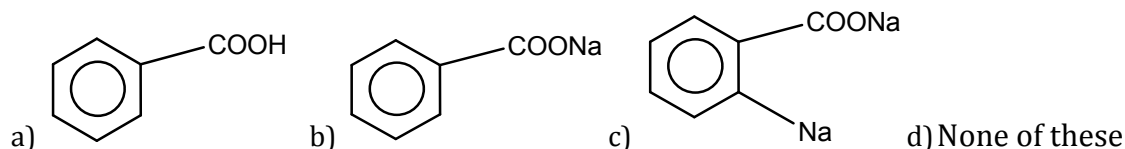
4. Which among the following are used as catalyst in cracking?

- a) Oxides of Al b) Oxides of Cr, Mo c) Oxides of V d) All of these

5. The general formula of a cycloalkane is

- a) C_nH_n b) C_nH_{2n} c) C_nH_{2n-2} d) C_nH_{2n+2}

6. Toluene reacts, with excess of Cl_2 in presence of sunlight to give a product, which on hydrolysis followed by reaction with NaOH gives



7. Which of the following alkanes can be easily sulphonated?

- a) *n*-butane b) Isobutene c) *n*-pentane d) *n*-hexane

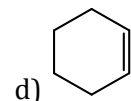
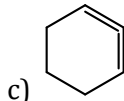
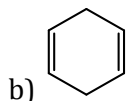
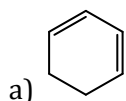
8. When propionic acid is treated with aqueous sodium bicarbonate, CO_2 is liberated. The 'C' of CO_2 comes from:

- a) Methyl group b) Carboxylic group c) Methylene group d) Bicarbonate

9. 10mL of a certain hydrocarbon require 25mL of oxygen for complete combustion and the volume of CO_2 produced is 20mL. what is the formula of hydrocarbon?

- a) C_2H_2 b) C_2H_4 c) CH_4 d) C_2H_6

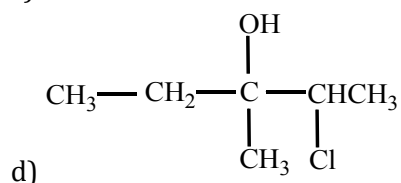
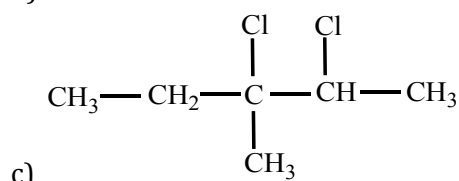
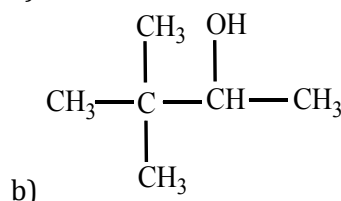
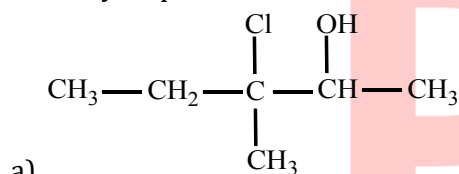
10. Which of the following compounds is the most stable?



11. The octane number of any fuel increases with:

- a) Increase in *n*-heptane
b) Decrease in 2,2,4-trimethylpentane
c) Increase in 2,2,4-trimethylpentane
d) None of the above

12. 3-methyl-2-pentene on reaction with HOCl gives:



13. The reaction of propene with HOCl proceeds *via* the addition of

- a) Cl^+ and OH^- in a single step b) Cl^+ in the first step
c) H^+ in the first step d) OH^- in the first step

