Name reactions in organic chemistry pdf

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Chemical Reactions

A. Balance the following chemical reactions:

1) $NaBr + Ca(OH)_2 \longrightarrow CaBr_2 + Na(OH)$
2) $N_2 + H_2 \longrightarrow NH_3$
3) $NaCl + F_2 \longrightarrow NaF + Cl_2$
4) $Pb(OH)_2 + HCl \longrightarrow PbCl_2 + H_2O$
5) $CH_4 + O_2 \longrightarrow CO_2 + H_2O$
6) $H_2SO_4 + B(OH)_3 \longrightarrow B_2(SO_4)_3 + H_2O$
7) $C_2H_6O + O_2 \longrightarrow CO_2 + H_2O$
8) $Li_3N + NH_4NO_3 \longrightarrow LiNO_3 + (NH_4)_3N$
9) $HBr + Al(OH)_3 \longrightarrow AlBr_3 + H_2O$
10) $Pb + H_3PO_4 \longrightarrow Pb_3(PO_4)_2 + H_2$

B. Identify the type of reaction as synthesis, decomposition, single-replacement, double-replacement, and combustion:

1) $Na_3PO_4 + 3\ KOH \longrightarrow 3\ NaOH + K_3PO_4$ _____
2) $Pb + FeSO_4 \longrightarrow PbSO_4 + Fe$ _____
3) $2\ BF_3 + 3\ H_2O \longrightarrow B_2O_3 + 6\ HF$ _____
4) $2\ Al + 6\ HCl \longrightarrow 2\ AlCl_3 + 3\ H_2$ _____
5) $2\ Fe + O_2 + 2\ H_2O \longrightarrow 2\ Fe(OH)_3$ _____

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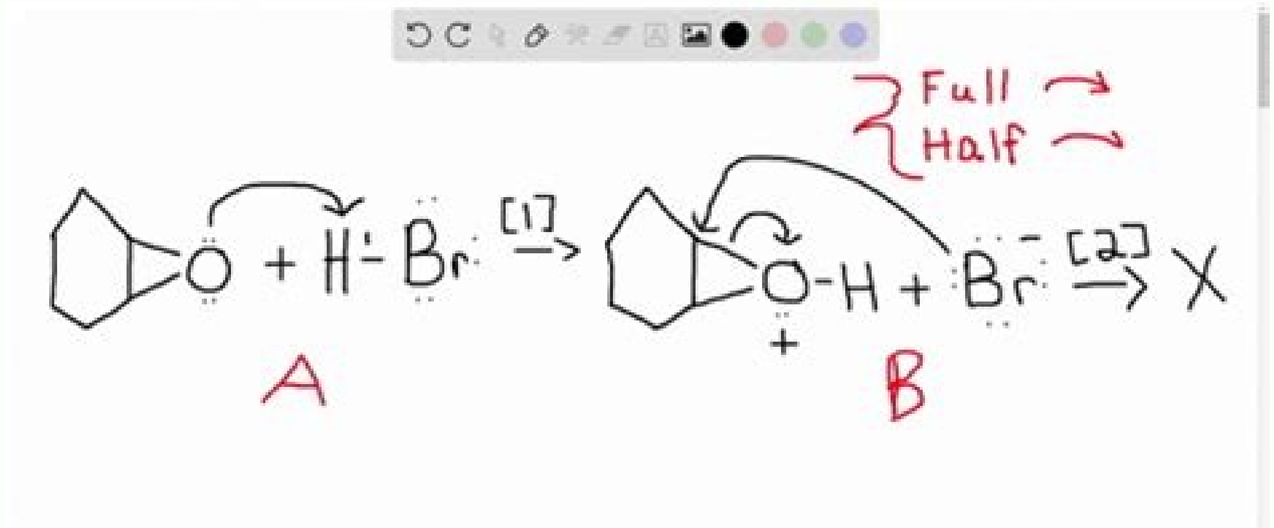

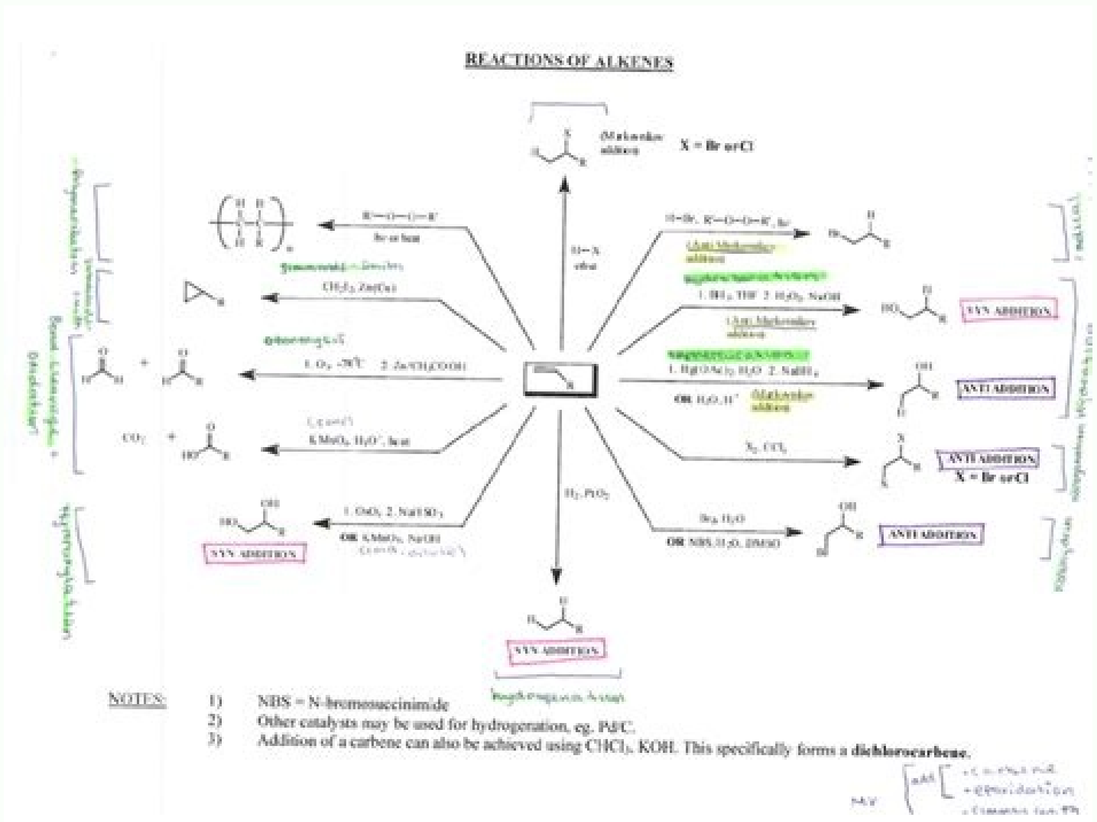

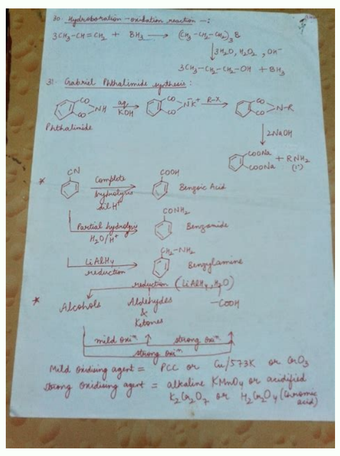

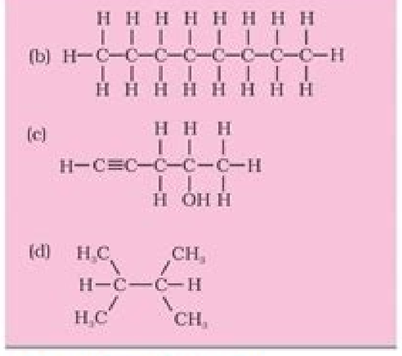

12.3.2 Three-Dimensional Representation of Organic Molecules

The three-dimensional (3-D) structure of organic molecules can be represented on paper by using certain conventions. For example, by using solid (▬) and dashed (┈┈) wedge formula, the 3-D image of a molecule from a two-dimensional picture can be perceived. In these formulas the solid-wedge is used to indicate a bond projecting out of the plane of paper, towards the observer. The dashed-wedge is used to depict the bond projecting out of the plane of the paper and away from the observer. Wedges are shown in such a way that the broad end of the wedge is towards the observer. The bonds lying in plane of the paper are depicted by using a normal line (—). 3-D representation of methane molecule on paper has been shown in Fig. 12.1.

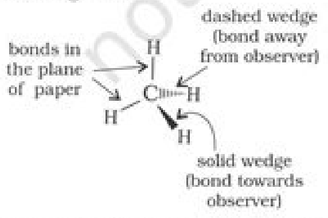

Fig. 12.1 *Wedge-and-dash representation of CH_4*

Molecular Models

Molecular models are physical devices that are used for a better visualisation and perception of three-dimensional shapes of organic molecules. These are made of wood, plastic or metal and are commercially available. Commonly three types of molecular models are used: (1) *Framework model*, (2) *Ball-and-stick model*, and (3) *Space filling model*. In the *framework model* only the bonds connecting the atoms of a molecule and not the atoms themselves are shown. This model emphasizes the pattern of bonds of a molecule while ignoring the size of atoms. In the *ball-and-stick model*, both the atoms and the bonds are shown. Balls represent atoms and the stick denotes a bond. Compounds containing C=C (e.g., ethene) can best be represented by using springs in place of sticks. These models are referred to as *ball-and-spring model*. The *space-filling model* emphasises the relative size of each atom based on its van der Waals radius. Bonds are not shown in this model. It conveys the volume occupied by each atom in the molecule. In addition to these models, computer graphics can also be used for molecular modelling.

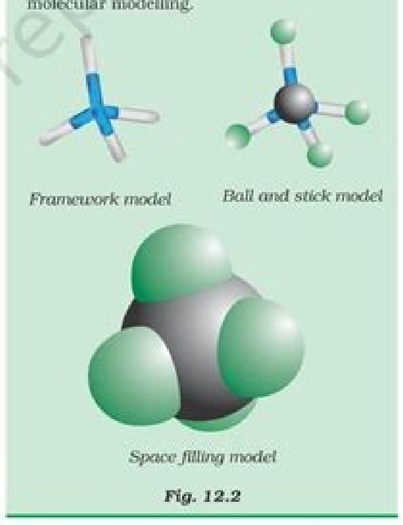

Fig. 12.2

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