# Chapter 8 Organic Chemistry – Some Basic Principles and Techniques

#### Answer 8.13:

Electrophiles are electron-deficient species and can receive an electron pair. On the other hand, nucleophiles are electron-rich species and can donate their electrons.

- (a) CH,COOH+HO<sup>-</sup> → CH,COO<sup>-</sup>+H<sub>2</sub>O Here, HO<sup>-</sup> acts as a nucleophile as it is an electron-rich species, i.e., it is a nucleusseeking species.
- (b) CH,COCH, +CN→ (CH<sub>3</sub>)<sub>2</sub> C(CN) (OH) Here, CN acts as a nucleophile as it is an electron-rich species, i.e., it is a nucleusseeking species.
- (b) C<sub>s</sub>H<sub>s</sub> + CH<sub>s</sub> CO → C<sub>s</sub>H<sub>s</sub>COCH<sub>s</sub>
  Here, CH<sub>s</sub> CO acts as an electrophile as it is an electron-deficient species.

#### Question 8.14:

Classify the following reactions in one of the reaction type studied in this unit.

- (a)  $CH_3CH_2Br + HS^* \rightarrow CH_3CH_2SH + Br^*$  (b)  $(CH_3)_2C = CH_2 + HCI \rightarrow (CH_3)_2CIC CH_3$
- (c) CH<sub>2</sub>CH<sub>2</sub>Br + HO → CH<sub>2</sub> = CH<sub>2</sub> + H<sub>2</sub>O + Br

#### Answer 8.14:

- (a) It is an example of substitution reaction as in this reaction the bromine group in bromoethane is substituted by the -SH group.
- (b) It is an example of addition reaction as in this reaction two reactant molecules combine to form a single product.
- (c) It is an example of elimination reaction as in this reaction hydrogen and bromine are removed from bromoethane to give ethene.
- (d) In this reaction, substitution takes place, followed by a rearrangement of atoms and groups of atoms.

# Question 8.15:

What is the relationship between the members of following pairs of structures? Are they structural or geometrical isomers or resonance contributors?

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