

**Q. 7** In order to prepare a 1° amine from an alkyl halide with simultaneous addition of one CH<sub>2</sub> group in the carbon chain, the reagent used as source of nitrogen is .....

(a) sodium amide, NaNH<sub>2</sub>

(b) sodium azide, NaN<sub>3</sub>

(c) potassium cyanide, KCN

(d) potassium phthalimide C<sub>6</sub>H<sub>4</sub>(CO)<sub>2</sub>N<sup>-</sup>K<sup>+</sup>

**Ans. (c)** In order to prepare 1° amine from an alkyl halide with simultaneous addition of one CH<sub>2</sub> group in the carbon chain. The reagent used as a source of nitrogen is KCN. Chemical transformation can be shown as

