**15. The hydrocarbon which can react with sodium in liquid ammonia is**

(1) CH3CH2C ≡ CCH2CH3

(2) CH3CH2CH2C ≡ CCH2CH2CH3

(3) CH3CH2C ≡ CH

(4) CH3CH ≡ CHCH3

**Solution:**

Terminal alkynes have acidic hydrogen. Terminal alkynes react with sodium in liquid ammonia to give ionic compounds.

Hence option (3) is the answer.