**;O**; 11. Why is the bond angle in alcohols is slightly less than the tetrahedral angle? H

Ans: It is due to the repulsion between the unshared electron pairs of oxygen atom.

slightly greater than the tetrahedral angle in 12. Why is the bond angle **O**: ethers?

Ans: It is due to the repulsive interaction between the two bulky - R groups or alkyl groups.

13. Name the product obtained when propene is subjected to acid catalysed hydration.

14. In the reaction,  $H_2C = CH_2 + H_2O = X \cdot Identify$  Ans: Ethanol

me the product X formed in the 15. In a reaction, ■CH

Ans: Propan-1-ol.

16. Write the chemical name of cumene.

Ans: Isopropyl benzene.

17. The boiling point of alcohols is much higher than ethers and other classes of compounds with similar molecular masses. Give reason.

Ans: Due to intermolecular hydrogen bonding in alcohols.

18. Give reason: Lower alcohols are soluble in water.

Ans: Due to the formation of hydrogen bonds with water molecules.

19. Name the compound which is also known as carbolic acid.

Ans: Phenol