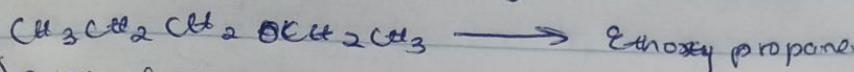
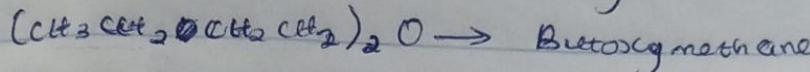
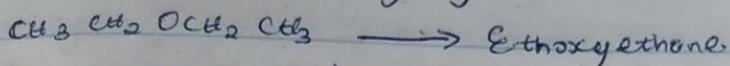
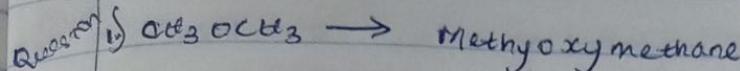


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CMM 002

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Answers 2) a) Physical state: At room temperature, ethers are colourless, neutral liquids with pleasant odours. The low aliphatic are highly flammable gases or volatile liquids.

b) Solubility: Ethers are less soluble in water than are the corresponding alcohols.

c) Density: Most of the simple ethers are ~~in fact~~ ^{less} dense than water, although the density increases with increasing relative molecular mass and some of the aromatic ethers are in fact denser than water.

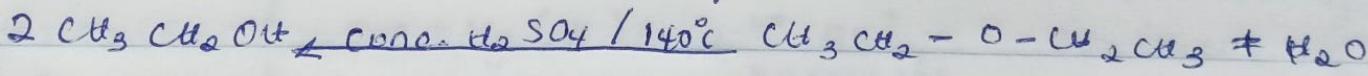
d) Boiling points: Low molecular mass ethers have a lower boiling point than the corresponding alcohols but those ethers containing alkyl radicals larger than four carbon atoms, the reverse is true.

e) Reactivity: Ethers are inert at moderate temperatures.

g) Preparation: Partial dehydration of alcohols.

Simple ethers are manufactured from alcohols by catalytic dehydration.

The alcohol in excess and concentrated tetroxosulphate (IV) acid is heated at a carefully maintained temperature of 140°C .



f) Controlled catalytic hydration of olefins.



Δ - Isopropoxypropane.

h) Ethylene oxide is used as an intermediate in the hydrolytic manufacture of ethylene glycol.

i) Ethylene oxide is used as a gaseous sterilizing agent.

j) Ethylene oxide is used in the preparation of nonionic emulsifying agents, plastics, plasticizers and several synthetic textiles.