

Ans (4) Freeze drying → Also known as lyophilization

Principle:- It is based on the principle of sublimation i.e. direct change of water from solid ~~to~~ into vapour without conversion to a liquid phase

The ~~to~~ drying is achieved by subjecting the material to temperature and pressure below the triple point

The freeze drying consists of following steps

① Preparation and pretreatment

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- ② Prefreezing for solidifying water
- ③ Primary drying
- ④ Secondary drying
- ⑤ Packing.