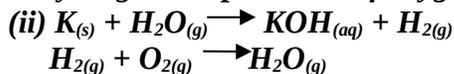
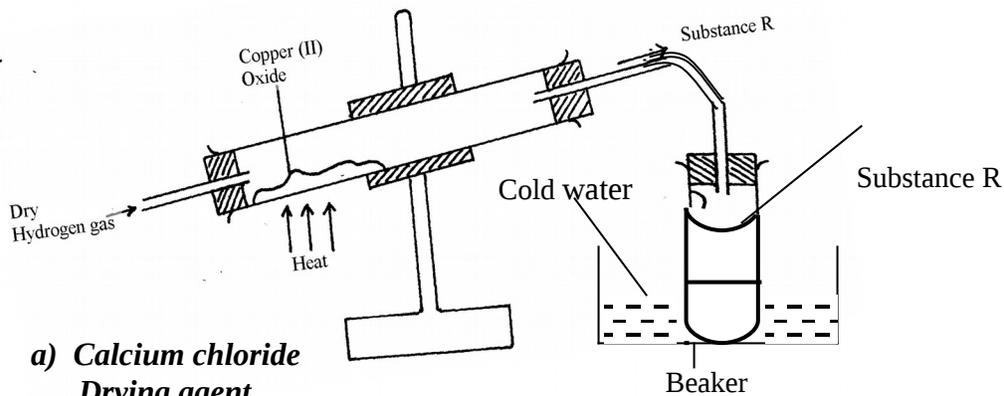


## Water and hydrogen

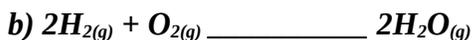
1. (a) Aluminium is above hydrogen in the reactivity series of elements  
 (b) (i) The reaction is too exothermic that alot of heat is produced causing ignition of hydrogen in presence of oxygen



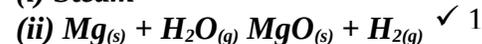
2.



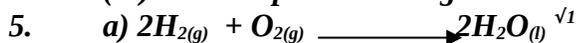
3. a) Calcium chloride  
Drying agent



4. (i) Steam

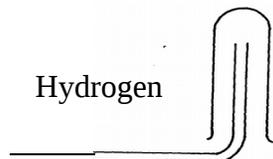


(iii) Gas P is passed through the combustion tube before heating is commenced

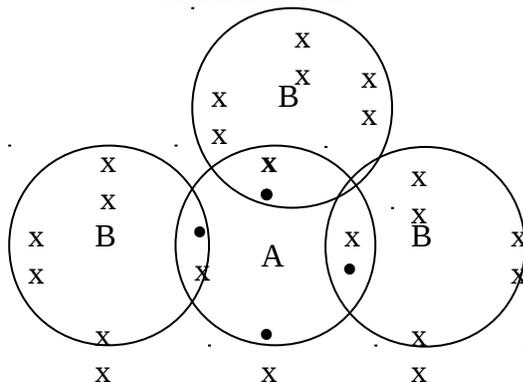


b) – Turns anhydrous white paper <sup>✓1/2</sup> copper (II) sulphate into blue. <sup>✓1/2</sup> Or  
 – Turns anhydrous blue <sup>✓1/2</sup> cobalt (II) chloride into pink. <sup>✓1/2</sup>

6. a)



b) reverse steam ✓1



7. (a) N



(Not balanced 0mk)