

Q.1

④ Discuss the various <sup>major</sup> ~~types~~ used in solar ⑥

### Section-2

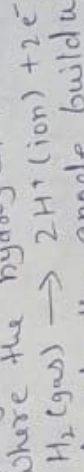
③ What is fuel cell? Describe the principle of working of  $H_2-O_2$  cell with its limitation.

⇒ A fuel cell is an electro chemical device that converts chemical energy into electricity and heat with out combustion.

### Working Principle

① A basic hydrogen-oxygen fuel cell with phosphoric acid as electrolyte is shown (fig).  
② In fuel cell, platinum coated special graphite plate are used as the electrode, separated by an electrolyte.

③ The fuel is hydrogen gas which is supplied at the anode side where the hydrogen molecule.



④ Electron liberated at the anode buildup a negative potential and travels towards the Cathode.

⑤ Oxygen gas is supplied at the Cathode where it is reduced by hydrogen ions to produce water.

