Commercial batteries and fuel cells: A galvanic cell is mainly used electrical energy. If Ut galvanic cells are connected grangement is called Commercial cells are classified as: rimary cells are the commercial blectrical energy is o revials are pr tions cannot be reversed in prinary cells. Dry cell, Mercury cell are 1 example & primary ce

Dry cell:	(+) POLE	al Havadagada (ken 10-) "Tarigira in yang sajarah ketang Ejupana di Hali in yang sajarah kenang sajarah sajara
Dry cell also called	1000 C Metal	en oitch
Lechlanche rell	-1.13	seal
consists & a cylindrical	52.16	container,
zinc container that	5:16	Cardboard
acts as an anode. A		Corplite
graphite rod is placed	=	(Cathode)
is the centre without		Mnoztc
touching the base and	(-) POLE	NHack + Zncl,
it acts las a cathode.	7 0 01	744 72442
The space between	ig: Dry cell	•
anode and cathode is so packed that In		
container is in contact with NHyCl and ZhCl2		
paste while the graphite rod is surrounded by		
MnD, powder and carbo	in as shown in	tique 0
The graphite rod is fifte	ed with a meta	al cap
and the cylinder is sealed at the top with		
pitch. The sinc container is covered with.		
cardboard to protect it from the atmosphere.		
The reaction takes place as:-		
At anode: Zn(s)	Zint+ (ag.) +2e-	
At rathode: 2MnO(s) + 2NH,++	-2e> Mn 0(s)	+ 2NH3/8)
		+N'D(V)
Net cell reaction: Zn(s) + 2MnO2(s) +2N	14 too 1 -> 2n++(ag	1 +Mn. 0,(3)
15" TEACHION: 2N(S) + 21"INU2(S) +21	+2 NH3 (3)+H20/2

Lead storage battery generally consists at six cells, which are connected in series to get 12 volt battery, each cell produce 2V.

The each cell, the anode is made at spongy
lead and a cathode is a grid at lead

parted with lead dioxide (PLO2). The electrolyte
is the aqueous solution at H2SO4. which is When a lead storage battery is in use, it is said to have discharged. During discharge of the battery, the following reactions take place. At ande: Pb(s) +50, - (ag) -> PbSO, +2e-At collade: P602(s)+50, -1ag) +71+ (ag)+2e- -> P650(s) Net cell xxn: Pbls)+Pb02(s)+4H+(aq.)+250, Taq.)->2Pb50,15) During the discharge of the cell, sulphurice acid is consumed and hence the specific gravity of the electrolyte decreases gradually.

The cell can be charged by passing electric
current of suitable voltage in opposite

direction. Thus, the electrode reaction get e electrolysis process place in which lead is deposited and sulphuric acid is regenerated 2PLSO,(s) + 2 M2O(1) + FLORG -> PL(s) + PLO,(d) + 4++ (22.) + 250, [62.) cell is an electrochemical 2. (O etc direct 420M



