```
(270 · 1 · (3)
                                      4(2) E(Pb2+/Pb) = E (Pb2+/Pb) + 0.0592 /3(C(Pl)+/CO)
 正极: E3+ +e==E2+
 級 后-28-162+
                                           E(H+/H) = E @(H+/H) + 0.0592 19 (C(H)/C)2
  (1) [ [ [ 2 (c) ] [ Fe (c) ], Fe 2 (c) ] [ Pe(+)
                                           正极。多电极: 2H++2e==H2
                                          t放: Pb2+ | Pb - 2e-= Pb2-
(4) 正极: Mn Di+3H++5e=-Mn2++4Hro
                                          见池仪型: 2H++Pb=H2+Pb>+
     発報: た2+-e-=た3t
                                             E = E+ - E- = E(H+/H)-E(P)>+/Pb)=- 0.0/66(V)
   (-) Pt/ Fe 2 (C°), Fe 3+ (C°) | M, 2+ (C°), M, Q-(C°), H+(C°) | P. (+)
       政机 Pbch + 2e = Pb +201
 (5)
        颜: Pb+2I-2e= PbIz
     (-> Pb Pb I2(5) KI(C*) KC(C*) PbCh(5)/Pb(+)
4. (1) E(I_1/I^2) = 0.5355 - \frac{0.0592}{2} \left( \frac{((I^2))}{C} \right)^2 = 0.59471V
      E(Cr2072-/C3+)- E(Cr2072-C3+)+ 0.0592 19 0.1 x(1x10-4)"4 = 0.7893(V)
      正极: Pt | C2072, C3+, 正极: C2072+14H++6e==2C1++3I2+7H20 至= E4-E==019461V)
                              概:21-2e==Ii
       級: Pt Li Li
                             电池反应: C12072-+6I+14H+=2C13+312+7H0
```

12)
$$\triangle_{r}G_{m}^{\Theta} = -nFE^{\Theta} = -2 \times 96500 \times 0.1045$$

= -2.017×10+415/med)

(3)
$$E(H_1, A_5 \circ u/H_2 A_5 \circ q) = E^{\oplus}(H_3 A_5 \circ q/H_3 A_5 \circ q/$$

8-
$$E^{\theta}(pbcl_{1}/pb) = E^{\theta}(pb^{2+}/pb) + 0.0592 \times 19(c 1pb^{2+})$$

$$= E^{\theta}(pb^{2+}/pb) + 0.0592 \times 19(c 1pb^{2+})$$

$$C(c1) = 1 \sim 1$$

$$E^{\theta}(pbcl_{1}/pb) = -0.2681V$$

10. (1) (-)
$$Ag | Ag I_{1,3}| I^{-}(I - v/L) | Ag^{+}(I v v v)| Ag^{+}(I v v v)| Ag^{+}(I v v v)| Ag^{+}(I v v v v)| Ag^{+}(I v v v v)| Ag^{+}(I v v v)| Ag^{+}(I v v v)| Ag^{$$

11.
$$E(H_{h}^{+}) = E^{\oplus}(H_{2}/H^{+}) + 0.0592 \log \frac{(H^{+})}{C^{\oplus}}$$

 $= 0.0592 \lg \%$
 $E(Cd^{2+}/Cd) = E^{\oplus}(Cd^{2+}/Cd) + \frac{0.0592}{2} \lg \frac{(C(Cd^{2+}))}{C^{\oplus}}$
 $= 0.456 \vee .$

$$E = E_{+} - E_{-} = 6.592 \text{ (gx - (-0.436) = 0.15V)}$$

$$= PH = 4.77$$

$$((H^{+}) = 1.7 \times 10^{-5} \text{ n.d.}/2.$$

(3)
$$E = E_{II} - E_{II} - \frac{1}{2} = 0.2094(V)$$