GIL 
$$k = \frac{1}{R} \cdot \frac{1}{A}$$
 $1 \cdot 3 = \frac{1}{50} \cdot \frac{1}{A}$ 
 $\frac{1}{3} = \frac{1}{50} \cdot \frac{1}{A}$ 
 $\frac{1}{4} = 65 \text{ m}^{\frac{1}{3}}$ 
 $\frac{1}{4} = \frac{1}{65} \cdot \frac{1}{4}$ 
 $\frac{1}{4} = \frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4}$ 
 $\frac{1}{4} = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4}$ 
 $\frac{1}{4} = \frac{1}{2} \cdot \frac{1}{2} \cdot \frac{1}{4} \cdot \frac{1}{4}$ 

that is satisfied by option (1)

X + Y<sup>+2</sup> -> X<sup>+2</sup> + Y

for sponteneous  $14x^n$ .  $8 = \frac{2}{5}x|x+2+\frac{2}{5}|x$  $8 = \frac{2}{5}|x+2|y| - \frac{2}{5}|x+2|x|$  so in reduction potential y+2/y must be greater then reduction potential. of x+2/y
So option (1) is rowert Aprècies that have highest value of reduction potential will behave as strongest oridising afent i.e. MnO. 1m = 1m - 61c Lep xn-factor = lex xn-factor -b/c 1ep = dep - b TC 100-25C 1. 1 > K= 1 x 70 = 1 Sm 1000 x 0.5 = 5 x 104 s m2 mot

Q.7 500+84+Mn00 -> Mn+2+440 & Mnoy Mn+2 = & Mnoy Mn+2 5 ([4+]8 EMNOY MATZ 2 1.51- .059 10 1 (103)8 Emnoy Mn+2 = 1.22 volt Now Mnoy cour oxidise ion xo then > Emnoy | Mn+2 + Exelx2>0 => Emnoy Mn+2 > Exz xo this condition is satisfied by I & Bro Q.8 If Eext < 1.1 current will flow in natural direction that will be cathod to aude.

To aude.

But if Ext >1.1 surrent will flow from autode to cathod Ep. (cu) = number of faradays Wey x2 = 2 mcy = 63.5 gm.

10. copper com not displace zn+2 on zn is above in électrochemical series with suspect to copper. CH, - COOK 7 H<sub>9</sub> + CH<sub>2</sub> + 2CO<sub>2</sub> + 2KOH 2(9) CH<sub>2</sub>(9) Ep. H2 - Ep. C2 H4 = Ep. C02 = 0.2 MH2 X2 = MC2HUX2 = MCOX1 = 0.2 n= 0.1mg nc24= 0.1mg nc0= 0.2ml Total volume at 1 atm 273 kelvin = 0.4 x 22.4 - 08.961iH species that have higest value of oxidation petential will be strongest reducing agent i.e. cr fe+2+200 - Fe €,= -0.47 fet3+e0 -> fe+2 &= +0.77 fe+3+3e0 - ) fe 8° = n, E°, + n, E°, 2(-.47) + 0.77 E°= -.057

$$\frac{Q.15}{27.66} = 1mn$$

repuired 
$$0_2 = 3 \text{ mod}$$

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