$C = \underbrace{\varepsilon_2 \omega} \left( \underbrace{\varepsilon_2 \varepsilon_1 - (\varepsilon_2 - \varepsilon_1) \eta} \right) \quad \omega = \underbrace{\omega i dth} = \underbrace{\varepsilon_2 \omega}$ 

casel n=0 $C = \sum_{0.1} [4 \times 5 - (4-1)0] = 1000 pf = 1 mf$ 

C = 5 [4x5 - (3x25)] = 625 ps Car 2 7:25 Can3 c- 5 [4x5 - (3x6)] . 250 pf emplat add junction or potentioner = 815 x 0-041 = 33-415 mV 012 a) Sensitivity of thermocouple = 20.68 0.0517 mv/s Reference Junction of o's is being used at 25°c. Ecorr = 0.05/0x25 = 1-293 mV 1 b) Indicated ent b/10 not & reference junction at 25°c = 8.92 mv. Difference of temp b/w hot & cold junction = 8.92 = 172° 53°C Reference junction temp at 25°0 172:53 +25 = 197:83°C. Exercis 012.7) sensitif = 45.14 0.041 mm/°C the temp-diff blw not is cold junction is 1940 - 250 = 813'c

