```
Max Shi
                                   Ox Lottun.
              Reduction!
             P6 02 -> P6 2+
              8602 + Ze-+ 4H+ -> (Pb2+2H20)
                                         2I -> I2 +2e -
             anshed. P602 + 4H+ 2I- -> P62+ Tetro + In
        (b) So32-+ Mnoy-> Sa22-+ Mn 2+
           Reduction".
                                          Oxidation:
            Myoy - > Ma
           MnOy-+5e-+8H+->Mx2++4H20 SO3+H20-> SOy2=+2H++2e
          Combred: 2Mn Day + 16H+ 5503 + 5420 -> 2Mn + 8420 + 55042 + 10H+
       (c) S<sub>2</sub>O<sub>3</sub><sup>2</sup> + Cl<sub>2</sub> -> SO<sub>4</sub><sup>2</sup> -+ Cl<sup>-</sup> SO<sub>4</sub><sup>2</sup> -+ Cl<sup>-</sup>
         +2 -2 -6-2
                           52032-+ H20-> 25042-+8e-+2H+
         Cl2+2e->2C1-
         Combbed": 4C/2+ S2032-+ H20 -> 8C1-+25042-+214+
     Q269 1202 +C102 -> C/62 + 02
        Reduction : Oxidation:
                            H202 -> 02
         44-2 +3-2 +1-1 +0
         (102+e-70102- H202-702+2e-+211#
W *
        Combobed: 20102 + 4202 -> 20102 - + 02 +2H+
         In basic solution: 20102+H202+20H- -> 20102-+02+2H20
       6) Al + Mn Dy - -> Mn Oz + Al (OH) y -
         Reduction
                                Dadation!
         Mn Oy - -> Ma Oz A1 (Oct) 4 -
                                     +3 -1
         +7-2 +4-2 -
     4H+ Mn Dy+3e--> Maoz + 2H20 40H-+ Al-> Allah)y+3e-
       2420 + Mn 04 - + 3e - -> Mn 02 + 404-
```

```
(C) (1/2 -> C/-+ C/0-
                                                               Oxidation.
        Deduction:
                                                           C(2-7 C(0-
         C/2 -> CC-
         CB -> 2C1-
                                                           C/2 -> 2C10
                                                               +1-2
                                                              Cl2+2H20->2C10-+2e-+4H+
        Cl2+2e -> 201
                                                              C/2+40H-->2C10-+2e-+2H20
      Combind. 2C(2+40HT-) 2C10+2C1+2H20
                                C12 + 20H -> C10 + C1 + 1/120
    Q3) (g) Mn 04 - + Zn -> Mn 2+ + Zn 2+
                                                                                               Oxidelian
              Rediction
                                                                                                   Zn -> Znz+
               Mnoy- -> Mn2+
                                                                                                    2n. -> 2n2+ +2e-
              +7-2 +2
Mnoy+8H+5e-->Mn2+ +4H20
           Combined: 2 Mandy + 16H+ + 52n -> 2Mn2+ 8H20 + 52n2+
    (24) Polassim lodate Loter mass - 2/3,999 (nol., 103 = 174,901, KI= (66.002 g/me)
                 md = M. volume = 0,02 x 0,25000 = 0,005 mol Klo3 x 213,299 - 1,079 lul 4103 Klo3 Klo3
        (b) hol= 0,02 x 0,02500= 0,0005 mol 4103= 0,0005 nol 103 = 174.9649 = 0.687
      (C) (1) 0,02 M 103-, (11) 0,0005 mol 103-
               (III) IO3-+6H++8I-=3I3+3H20
              (10) 0,005 not IO3 × 8 and I - lad les x 166,002 gles = 6.645 KI
 &S. (de) Because indine, In the presence intexcess indide, forms the tripodide ion,
                 which forms a redax equilibrium recurturan for the bases of bodometric titration.
       (b) 1,022 g 4clos x Inal Celos = 0.00477 g Celos/ 0.0010 M 4los.
              ID3 +6H++BI- =3I3-+3H20
    0.0010MKIO3 x 0.0500L 2 0.00005 not IQ - 3 not I3 - 0.00015 not II3 - 1 not 103 - 1 not 10
            +2-2 +2,5-2 -1/3 -1
```

(d) 0,006/5mol I3 x 2mol S23 = 0,00030md S203 8.00797 M. 1 lmol I3 = 0,03766 = Naz S203 (b) 0.06797 M x 0.01422 = 0.000113 nol 5232 x lnol 73 5.66x10 5 2032 x 2nol 52032 = nol I3 0,00015-5.66x10 = 0.0000934 ml I3 consued by assorbic acid 9.34×10 mol I3 × Inol IO3 × Bud we 176.13 9= 0.61649 wed.

Tanol I3 / Inol 193 - Inol we 1,2285= 1.34% Q6. 0,05000 L x 0,1186M Ce 44= 0,00593 mol Ce 44 axorbicacid 0,03/13 Lx 0,04289 M Fe 28 x / 1016 - 0,001338 not le 41 muséel. Ind new 0,00593-0,001335-0,00459 not Ce Huged x Land 1 W2 - 60.60230 not M2-0,00230 ml Noz = 0,0919MN2 - x0.500 LZ 0.459 nol Noz - 68,9959 Novas 78.6 % Nalls