



QUES11 . WHAT IS LANTHANOID CONTRACTION? WRITE ITS CONSEQUENCES.

QUES12. ARE ALL THE BONDS IN PCL5 EQUAL? JUSTIFY YOUR ANS.

OR

WHY AgBr SHOWS BOTH FRENKEL AND SCHOTTKY DEFECT?

QUES13. DIFF B/W

[A] PHYSISORPTION & CHEMISORPTION

[B] IDEAL&NONIDEAL

QUES 14 A FIRST ORDER REACTION COMPLETES IN 40 MIN FOR 30% DECOMPOSITION. CALCULATE HALF LIFE FOR FIRST ORDER REACTION

OR

STATE HENRY'S LAW WITH TWO APPLICATIONS.

QUES15 EXPLAIN WITH CHEMICAL REACTION[A] LEAD STORAGE BATTERY[B]NICKEL CADMIUM BATTERY

QUES16  $[\text{Cr}(\text{NH}_3)_6]^{3+}$  IS PARAMAGNETIC WHILE  $[\text{Ni}(\text{CN})_4]^{2-}$  IS DIAMAGNETIC. EXPLAIN.

QUES17 ARRANGE WITH THE INSTRUCTION GIVEN

[1] HF,HCL,HBr,HI(INCREASING ACIDIC CHARACTER)

[2] NH<sub>3</sub>,PH<sub>3</sub>,AsH<sub>3</sub>,SbH<sub>3</sub>,BiH<sub>3</sub>

QUES18 CALCULATE THE E.M.F OF THE CELL AT 25OC

Mg/Mg<sup>++</sup>(0.01)//Sn<sup>++</sup>(0.1)/Sn

E<sub>o</sub>Mg<sup>++</sup>/Mg=-2.34V, E<sub>o</sub>

Sn<sup>++</sup>/Sn=-0.136V,

OR

SHOW THAT IN A FIRST ORDER REACTION TIME REQUIRED FOR COMPLETION OF 99% IS 10 TIMES OF HALF LIFE OF REACTION

\*\*\*\*\*BEST OF LUCK\*\*\*\*\*

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