NAME: M. Jaswarth. EXPERIMENT-9 its chemilumin Scent Aims Synthesis of Luminal and reaction with oxidation. Introduction: The phenomenon of emitting light from a material at or below room temperature are known as lumine scence. When chemical reaction Results lumine Scence, it is called as chemi Lumin Scence. In these reactions a product forms in its high energy excited state and it relaxes to its ground state with leaf release of energy as light. Reaction !-NO, 2 0 NH2 1. Nao H/Na, S, Dy, NH2 NH
2. CH3 COO H 3-amino pthaly lhydride (Luminal) 3-NPtropthaly/hydride Procedure: Synthesis of Luminals-O Add To mg of 3-Nitropthalyl hydride to ~Ime of 3M NaoH in a tert-tube and mix well.

Of 3M Não H in a tert table wild sing of (2) Resulting deepbrown red solution add 3mg of Sodium hydrosulphite dehydrate. (Nas 5,04. 2 Hz 0)

- 3 To get all the Solids down, wash the tuber well with the Small quantity of water.

 (4) Remember the total volume of the Solution
- Should not be 3 ml.

 The total volume or the solution of the s
- The keep the tube in hot both and heat the mixture for 5 to 10 minutes with occasional strong.
- 6 Observe the colour change.

 1 Take a tube out of the bath and add
- 10-12 drops glacial acetic acid. (not excen)

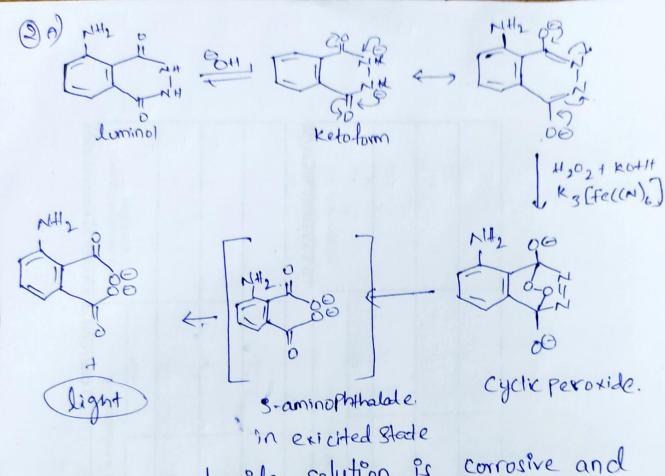
 8 cod it down to room temperature by putting
- (8) cool it down to come any accum fettration of collect—the solid product by vaccum fettration
- . Note down the colour of solid.

 10 Take the weight of Synthesized luminal.
 - Resuttschemiluminescence has been observed from the oxidation of luminal.
- Answers for the Questions:

 O A) chemilumine Scence is the emission of light

 or the result of chemical reaction. There

as the result of chempcal reaction. There may also be limited emission of heat.



Bodium hydroxide solution is corrosive and dangerous to eyes skin burns are possible. As potassium forrocyanide is a strong base the reaction will be accelerated and the reaction occurs only with these type of bases.