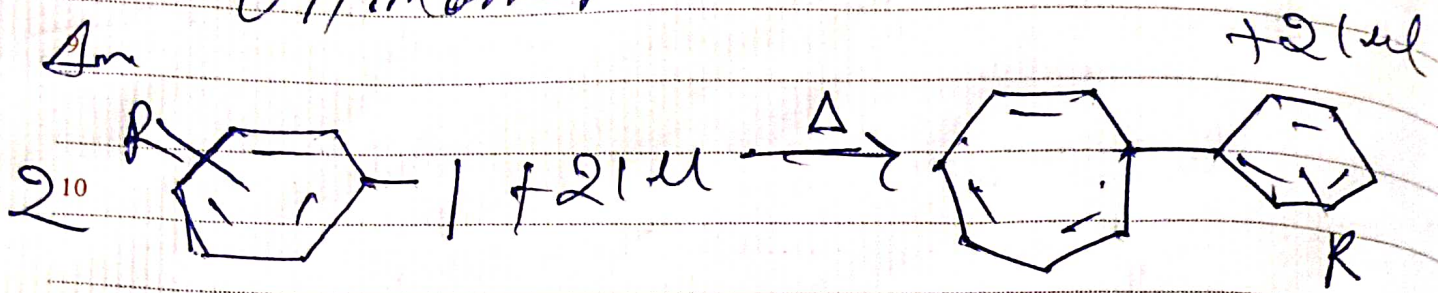


1 / 1 August

31	31	W	T	F	S	S
32	3	4	5	6	7	8
33	10	11	12	13	14	15
34	17	18	19	20	21	22
35	24	25	26	27	28	29

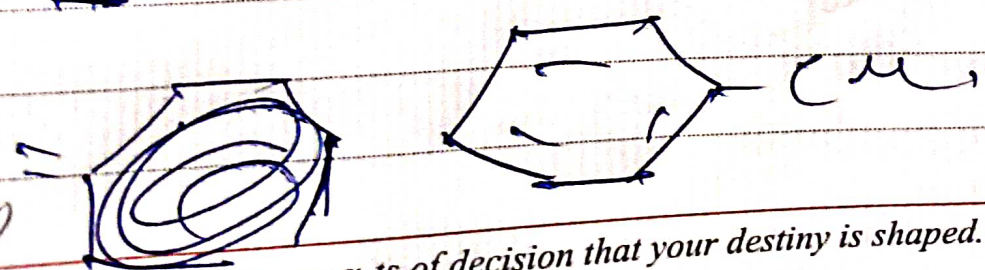
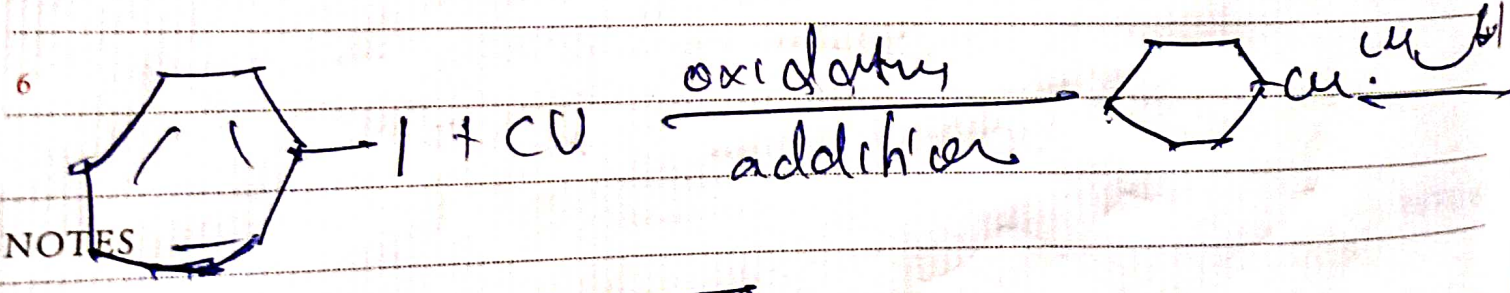
Tuesday • Week 33 Day (224-142) Section 2.

02 Ullmann Reaction



11 Mechanism of the Ullmann reaction:

1. Diaryls are available through  
 2. coupling of the aryl halide with  
 3. an excess of copper at elevated  
 4. temp<sup>o</sup> (200<sup>o</sup>C). The active  
 5. species is a copper (I) - compound  
 6. which undergoes oxidative  
 addition with the second of  
 aryl halide, followed by reductive  
 elimination and the formation  
 of the aryl-aryl-carbon bond.



2020