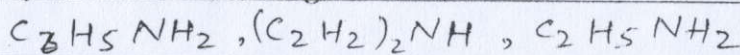


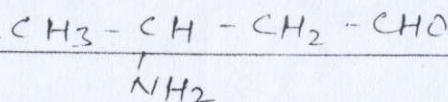
Q. Notes on Valence theory Q. Why do transition elements show  
 Q. Valence Bond theory A. Transition metals generally form col  
 Q. Crystal field theory Q. What are transition elements? Write  
 of the transition elements. 19-2  
 (IX)

1 (a) Arrange the following in increasing order of basic strength : aniline, p-nitro aniline and p-toluidine

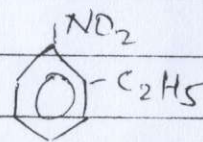
(b) Arrange the following compounds in water



(c) Write the IUPAC name of the compound



(d) Write IUPAC name of the following



2. Write equation for

(i) Gabriel phthalimide reaction

(ii) Hofmann bromide reaction.

X

1. Write short notes on conductivity or what is conductivity

2. Write short notes on Molar conductivity

3. Kohlrausch's Law of Independent migration of ions

4. Notes on Ionic product of water.

XX

Q. What is meant by molality of the soln

Q. Notes on molality of a soln

Q. State Raoult's law

Q. How will you carry out the following conversions.

(i) Acetylene to acetic acid.

(ii) Toluene to m-nitrobenzoic acid.

(iii) Benzoic acid to benzaldehyde.

Q. What are monosaccharides?