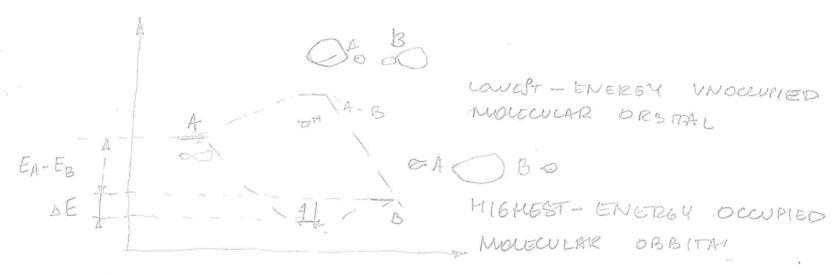
OF MO DESCRIPTION OF A POLAR CONALENT BOND



· ASSIGNMENT OF FORMAL CHARGES

COUNT THE NUMBER OF VALENCE ELECTRONS FOR A
BIVEN ATOM. LONE PAIRS ARE COUNTED AS TWO
VALENCE ELECTRONS; EACH COURLENT BOND IS COUNTED
AS ONE VALENCE ELECTRONS.

FORMAL CMARGE = # (BE VALENCE ELECTRONS FREE ARM)

- # (DE VALENCE ELECTRONS FROM)

EXAMPLE 67-DNG On

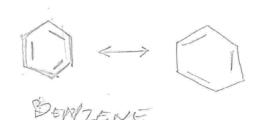
DMSO

3

NITRO FUNCTIONAL GROUP



RESONANCE AND THE ARROW-PUSHIPVE CONVENTION



O DOUBLE- MEADED ARROW INDICATES THAT THE COMPOUNDS ARE RESONANCE PORMS

CABOXYLATE

NITTRO

RULES FO RESONANCE STRUCTURE

- 1 EACH IMPLUIDUAL FORM IS A (FLAWED) REPRESENTATION OF THE PRUE STRUCTURE.
- D' RESONANCE FORMS UNLY IN THE POLITION OF IT OR NONBONDING ELECTRONS, NOT POSITIONS OR MYERIDIRATION OF ATOMS.
- PIFFERENT RUSONANCE FORMS NEED NOT BE FOULVALENT.
- RESONANCE FORMS OBEL NORMAL RULES OF VALENCY THE RESONANCE MYBRID IS MORE STABLE

TURN MAY INDIVIDUAL QUESTONANCE STONE IN CONFE.

