Organic Chemistry I

FINAL EXAM REVIEW SHEETS / 8 pages / 16 worked ideas

01 BONDING AND ACIDITY

Read the prompt, pick the governing idea, then verify the result.

Resonance first

RULE

Move electrons, never atoms; keep total charge and octets valid.

DECISION CUE / TRAP

The best contributor has full octets and puts negative charge on the more electronegative atom.

TRY IT

Compare a neutral carbonyl with its C+–O− contributor.

WORKED STEP

The neutral C=O contributor avoids charge separation.

COVER & RECALL / REDO THE EXAMPLE WITHOUT LOOKING

Acid strength

RULE

Compare stability of the conjugate bases.

DECISION CUE / TRAP

Use atom, resonance, induction, and orbital effects before memorizing pKa values.

TRY IT

Acetic acid vs ethanol: which is stronger?

WORKED STEP

Acetate delocalizes its negative charge over two oxygens; ethoxide does not.

COVER & RECALL / REDO THE EXAMPLE WITHOUT LOOKING

SAMPLE

Watermarked sample - full pack has 8 pages and 16 worked ideas