Organic Chemistry II

FINAL EXAM REVIEW SHEETS / 8 pages / 16 worked ideas

01 THE TWO REACTION PATTERNS

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

Aromatic substitution

RULE

An aromatic ring attacks an electrophile, then loses H+ to restore aromaticity.

DECISION CUE / TRAP

The ring is the nucleophile; preserving aromaticity drives the last step.

TRY IT

Benzene + Br2/FeBr3.

WORKED STEP

The activated electrophile replaces one ring H; bromobenzene forms.

COVER & RECALL / REDO THE EXAMPLE WITHOUT LOOKING

Carbonyl attack

RULE

A nucleophile attacks the polarized carbonyl carbon.

DECISION CUE / TRAP

An aldehyde/ketone usually adds; an acid derivative can expel a leaving group.

TRY IT

Acetone + NaBH4, then workup.

WORKED STEP

Hydride adds to C=O; protonation gives 2-propanol.

COVER & RECALL / REDO THE EXAMPLE WITHOUT LOOKING

SAMPLE

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