Microbiology

FINAL EXAM REVIEW SHEETS / 8 pages / 16 worked ideas

01 CELLS AND STAINING

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

Cell envelope

RULE

Gram-positive cells have thick peptidoglycan; gram-negative cells have an outer membrane and thinner peptidoglycan.

DECISION CUE / TRAP

Connect stain outcome to envelope structure.

TRY IT

A cell retains crystal violet after decolorization.

WORKED STEP

The thick peptidoglycan retains the dye complex: gram-positive.

COVER & RECALL / REDO THE EXAMPLE WITHOUT LOOKING

Microscopy choice

RULE

Resolution is the smallest distance you can distinguish, not magnification alone.

DECISION CUE / TRAP

Choose a method based on what must be seen.

TRY IT

Two structures blur into one under a light microscope.

WORKED STEP

More magnification alone cannot recover detail below its resolution.

COVER & RECALL / REDO THE EXAMPLE WITHOUT LOOKING

SAMPLE

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