Checking a Window After Its UV Film Ages

Scoring guide · one credit per question · review written work against each rubric

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Question 1

Choice (3)

The film passes 16% of UV band B, above that band’s 10% limit. The visible and UV A readings still qualify.

Question 2

Select Refutes the claim. Visible transmission changes from 88% to 87%, but UV band B rises from 4% to 16%, above the 10% limit.

Question 3

It does not send band B light to the film. The test can compare visible and band A behavior, but it cannot measure the aged film’s transmission in band B.

Question 4

Use a source and detector that can measure band B. Record the band B signal at the detector with no film, then with the film in place. Keep the source and detector settings and positions fixed. Divide the with-film signal by the no-film signal and multiply by 100.