

2024 Higher Chemistry Paper 1 - Q22

Section: Researching Chemistry

Topic: General Practical Techniques (Filtration)

Question summary (Q22):

A filtration experiment was carried out to separate X and Y. Which line in the table correctly describes X and Y?

Worked Solution:

- In filtration, the solid that does not pass through the filter paper is the residue.
- The liquid that passes through and collects below is the filtrate.
- Therefore:
X = residue
Y = filtrate

Final Answer: B — residue / filtrate

Revision Tips:

- Residue: solid left on filter paper.
- Filtrate: liquid collected after filtration.
- Useful for separating insoluble solids from liquids.
- Don't confuse with "precipitate": a solid formed during a reaction (which then becomes residue if filtered).