

TOPIC 4.

SEPARATION TECHNIQUE

(FILTRATION & EVAPORATION)



* **STEP 1: Click on the video below before answering the questions**



* STEP 2: Answer the following questions

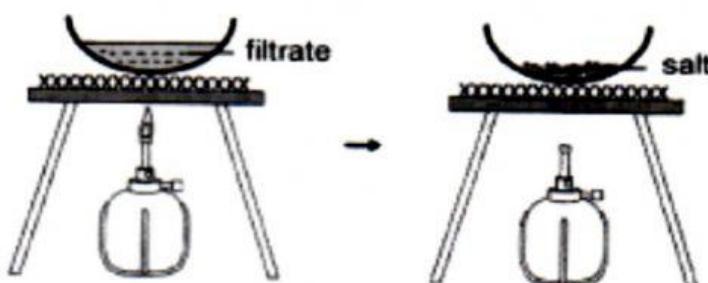


1. A mixture of inks can be separated by filtration.

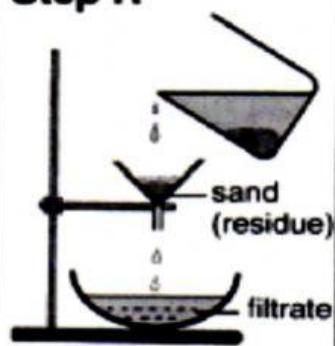
ANSWER: TRUE / FALSE

2. Daud wanted to separate a mixture of sand, salt and iron filings. He wrote down the steps shown in figure below to separate the mixture. However, Daud's descriptions of the steps are **not** in order.

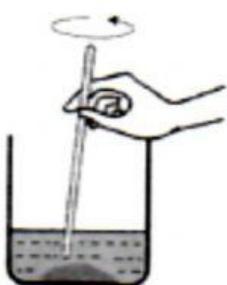
Step O



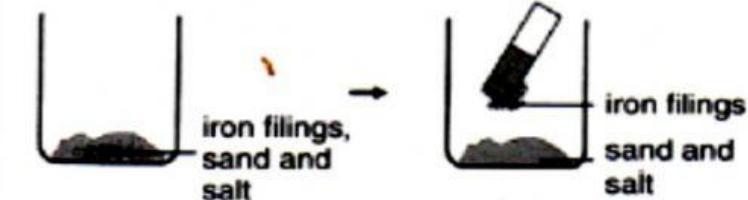
Step R



Step P



Step Q

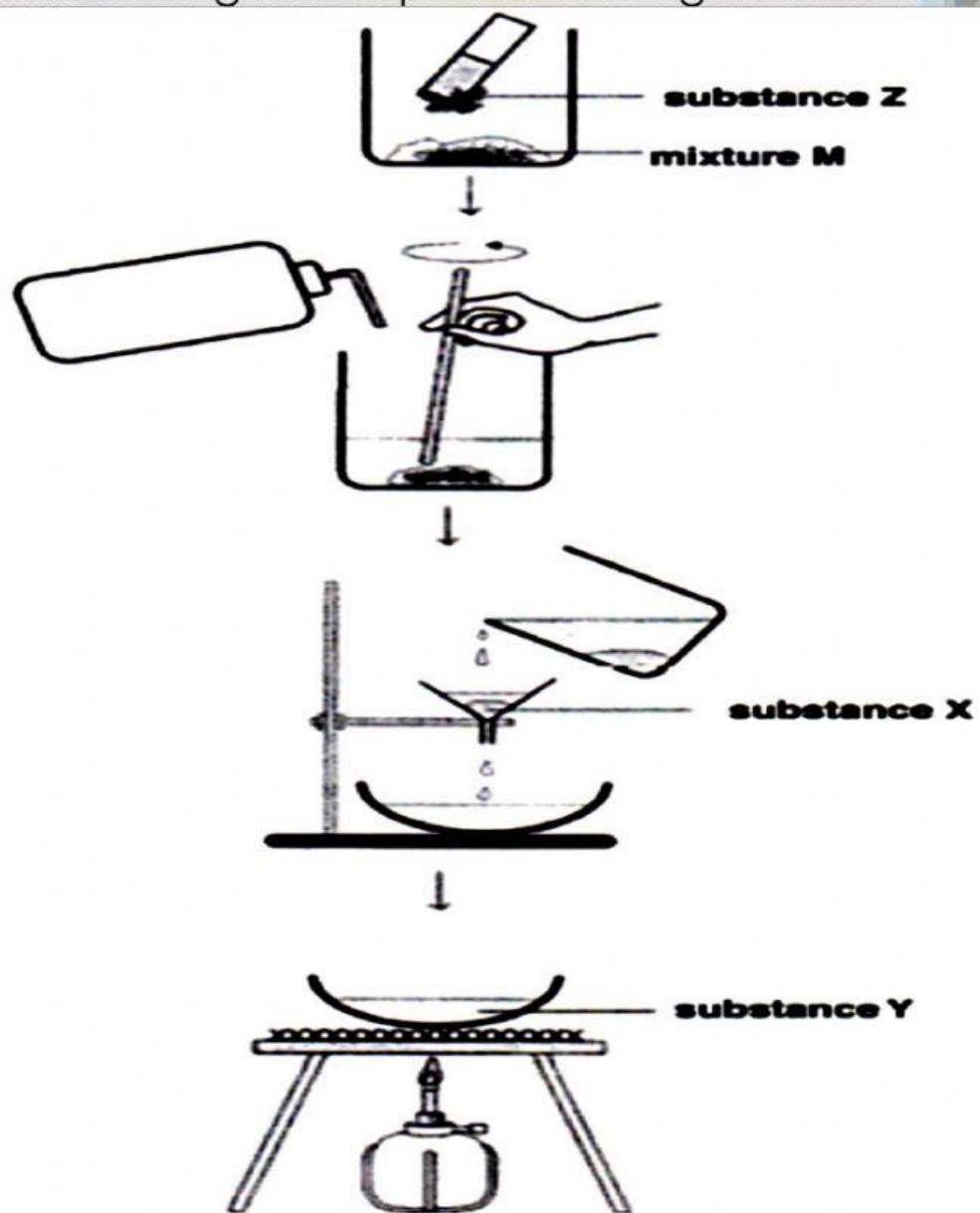


The correct order should be _____.

A. Steps O → P → Q → R
B. Steps P → Q → R → S
C. Steps Q → P → R → O
D. Steps R → Q → P → O

ANSWER

3. **M** is a mixture of substance **X**, **Y** and **Z**. The mixture is separated using the steps shown in figure below.



Which of the following is the correct identity of **X**, **Y** and **Z**?

	X	Y	Z
A.	Iron filings	Salt	Sand
B.	Salt	Sand	Iron filings
C.	Sand	Salt	Iron filings
D.	Sand	Iron filings	Salt

ANSWER

4. Iron filing, sulfur powder and salt are accidentally mixed together in the laboratory.



The following steps are used to separate the three components.

The steps are not in order.

- i. Place the filter paper into the funnel and pour the mixture of sulfur and salt solution through the filter paper and funnel.
- ii. Use a magnet to separate the iron from the sulfur and salt.
- iii. Stir the mixture. The distilled water will dissolve the salt.
- iv. Place the salt solution in an evaporating dish and heat the salt solution.
- v. Add distilled water into the mixture.

Which of the following shows the correct sequence of steps?

A. ii → v → iii → i → iv

B. ii → i → v → iv → iii

C. iii → ii → iv → v → i

D. v → iii → i → ii → iv

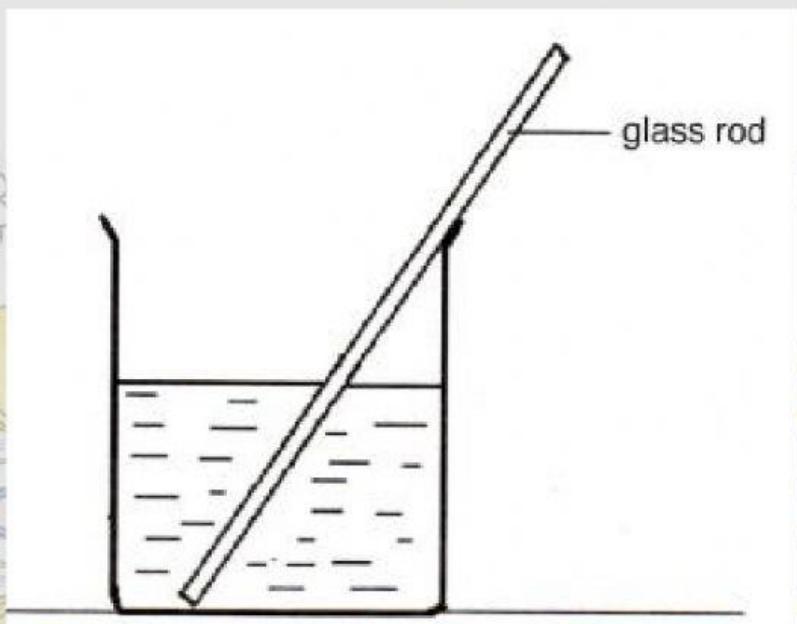
ANSWER



5. Ali added two spoonful of chalk powder to 50 cm^3 of water in a beaker.

Chalk is insoluble in water.

After stirring, he left the mixture to stand for 10 minutes as shown in figure below.



Suggest a way to get back the chalk powder. [1]

