

WRITTEN EXERCISE #05 - T14.1

TOPIC 14 ATOMS, ELEMENTS AND COMPOUNDS
SUBTOPIC 14.1 ELEMENTS, COMPOUNDS AND MIXTURE

ANSWER ALL QUESTIONS

1. Rock salt is a mixture of sodium chloride and sand. A student added some rock salt to water and stirred the mixture.

Use words from the list below to complete the following sentences.

insoluble

soluble

solute

solution

solvent

The sodium chloride dissolved in the water to form a colourless

The sand did not dissolve because it is in water.

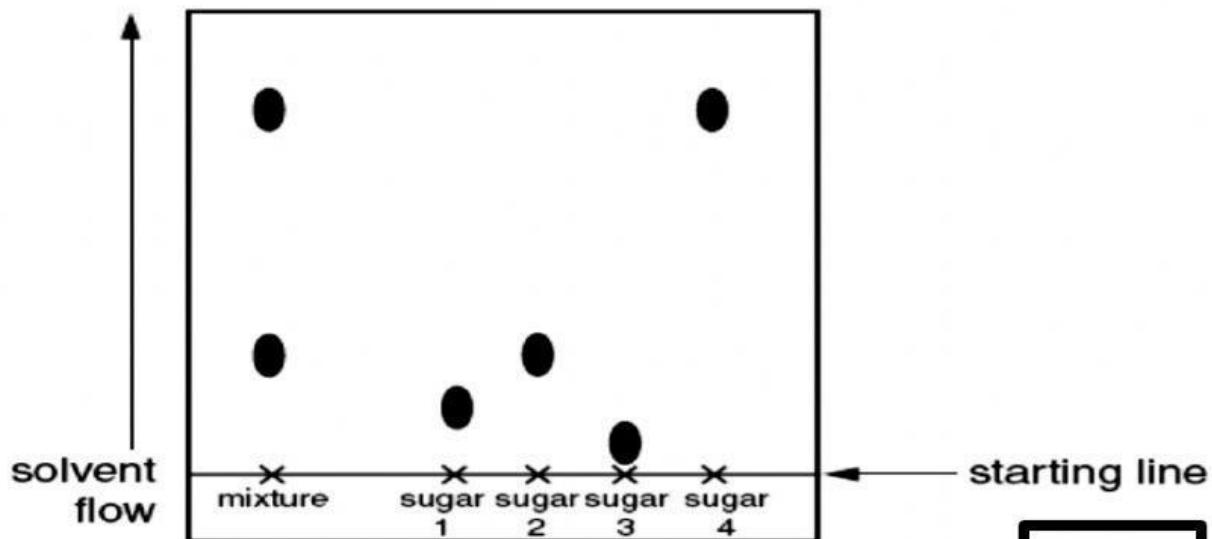
Sodium chloride is acting as the in this experiment. [3]

(b) Name a process that could be used to separate dyes.

..... [1]

2. A mixture of two sugars was compared with four different sugars using chromatography.

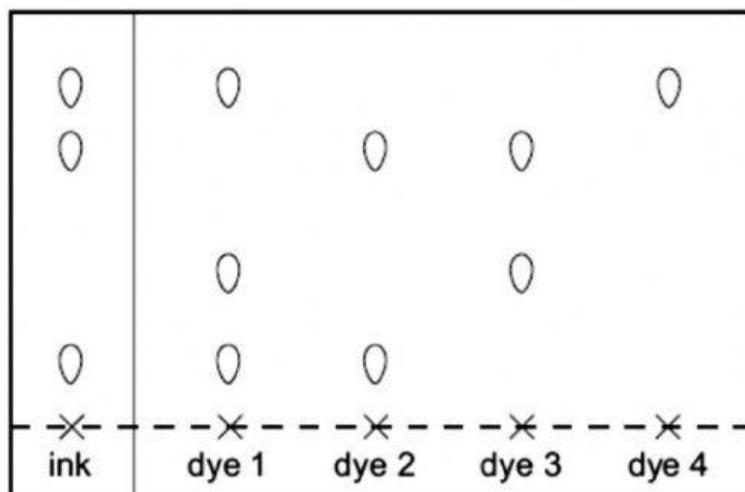
The results are shown in the diagram.



Which two sugars does this mixture contain?

A 1 and 2 B 1 and 4 C 2 and 3 D 2 and 4

3. A coloured ink is compared with 4 different dyes. The chromatogram produced is shown in the diagram.



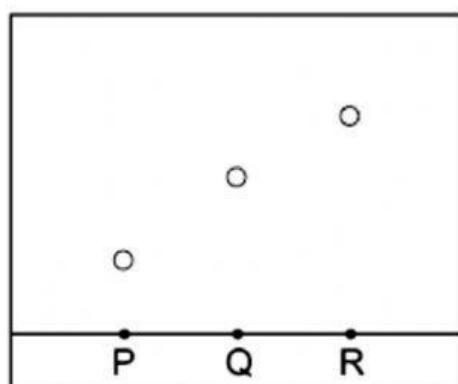
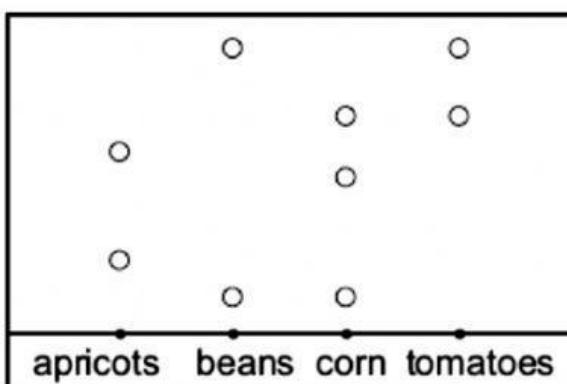
Which dyes does the ink contain?

A 1 and 2 B 1 and 4 C 2 and 3 D 2 and 4



4. Samples of tinned apricots, beans, corn and tomatoes are tested for additives by using chromatography. The chromatograms are compared with those of three artificial additives, P, Q and R.

The results are as follows.



Which tinned food does not contain any artificial additives?

A apricots B beans C corn D tomatoes

