

WRITTEN EXERCISE #06 - T14.1

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

1. A student wants to find which coloured dyes have been mixed together to make dye X.

She separates a sample of dye X and samples of coloured dyes using paper chromatography.

Her results are shown in Fig. 13.1.

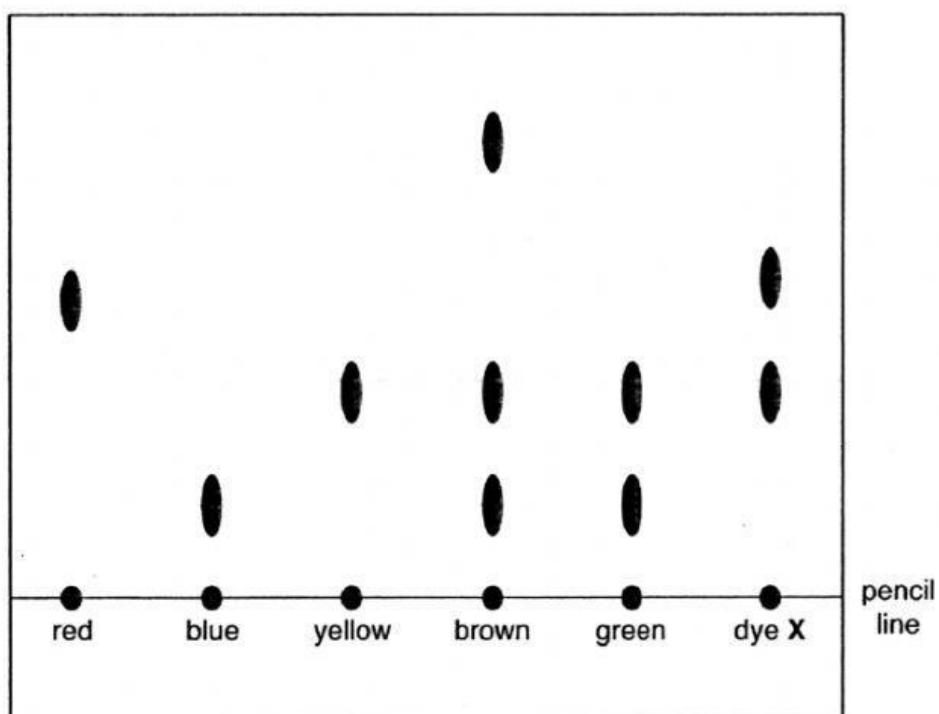


Fig. 13.1

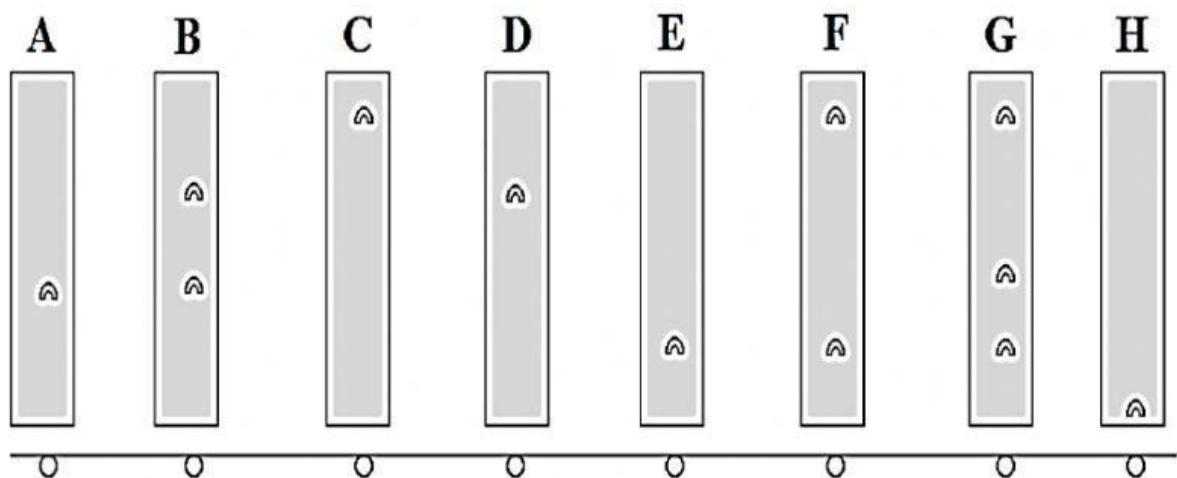
(a) Explain why the line is drawn in pencil and not in ink. [1]

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(b) Which colours are present in dye X? [2]

(c) Which coloured dye contains a substance not present in any of the other coloured dyes? [1]

2. Chromatograms obtained at the end of experiment:



From above result:

- How many chromatograms contain impurities? [1]
- Which samples are pure? [1]
- Which sample contains unknown substance? [1]
- Choose two samples to make sample G. and [2]