

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.

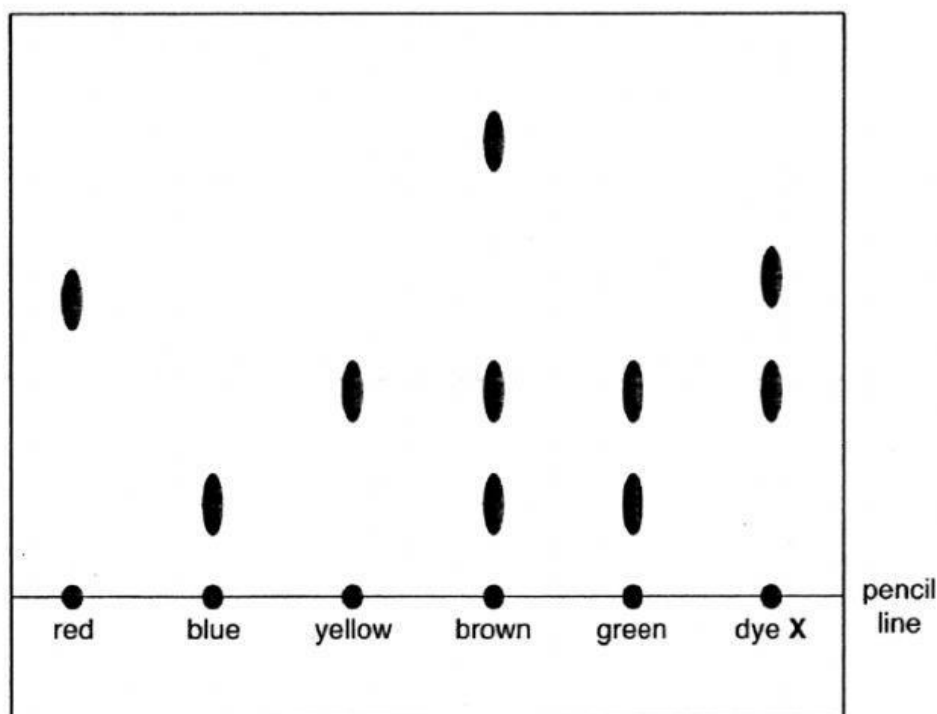


Fig. 13.1

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

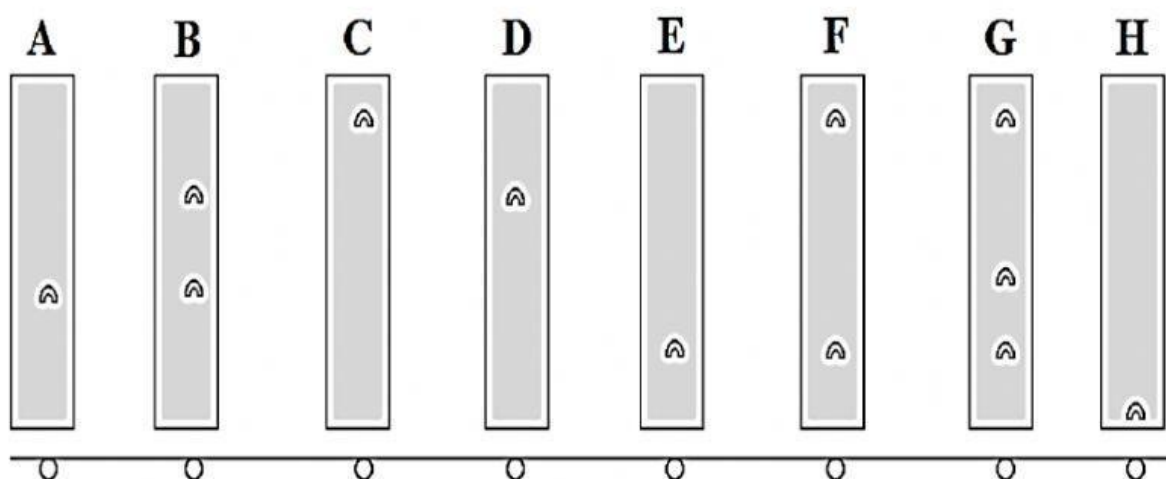
.....

.....

- (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:

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