

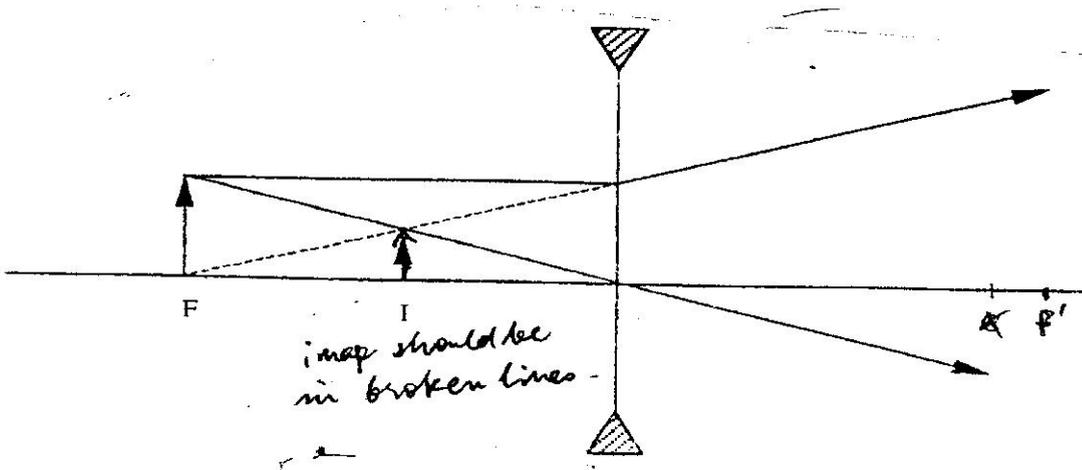
Weakness

The following weaknesses were noted:-

- Failure to draw rays (lines drawn instead of rays).
- Some candidates drew correct rays but could not extrapolate to get the position of the image.
- Some candidates drew reflected rays as if on/from a mirror.
- Failure to recall the fact that rays parallel to the principal axis emerge as if from the principal focus.

Teachers should give adequate exercises on image formation in lenses.

Expected Response



8.1.2 PAPER 2 (232/2)

Question 1 (a)

- (a) A test tube of uniform cross-section is loaded so that it can float upright in water. With the aid of a labelled diagram, describe how the test tube may be calibrated to measure the density of a liquid. (4 marks)

The word **calibrate** means marking an instrument to use it to measure a physical quantity. In this question candidates were expected to describe how to mark on the test tube using known densities of two liquids and then show how the marked test tube may be used to measure the density of a liquid.

Weakness

Less than 25% of the candidates scored one mark out of the possible 4 marks. This could be attributed to failure to understand the word calibrate. Other candidates failed to interpret the diagrams they drew which shows they did not understand the task.