

1 A practical physics textbook states that “measurements may give a precise value for the quantity being determined but this may not necessarily be an accurate value”.

(a) Describe what physicists mean by the terms accuracy and precision.

(2)

(b) The temperature of the air in a room is measured using a mercury-in-glass thermometer.

Describe how the value for the temperature may be precise but not accurate.

(2)

(Total for Question 1 = 4 marks)