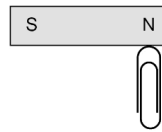


Q1. (2020)

Figure 2 shows a paper clip being attracted to a permanent magnet.

Figure 2



0 1 . 4

The student added more paperclips to one end of the magnet.

The maximum number of paperclips the magnet could hold was 20

Each paper clip had a mass of 1.0 g

gravitational field strength = 9.8 N/kg

Calculate the maximum force the magnet can exert.

[3 marks]

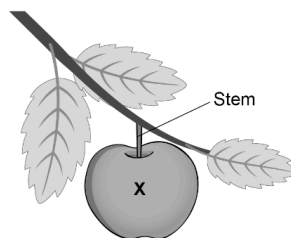
Q2. (2022)

0 7

Figure 11 shows a stationary apple hanging from a tree.

The X marks the centre of mass of the apple.

Figure 11



0 7 . 1

Draw **two** arrows on Figure 11 to show the forces acting on the apple.

[2 marks]