

Static and Charge

Q1.a(2020)

Plastic rods are used in static electricity experiments.

- (a) Describe how a student could charge a plastic rod.

.....
..... [1]

Q1.b(2020)

Fig. 14.1 is a diagram of a plastic rod before being charged.

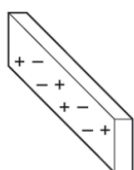


Fig. 14.1

Explain why the plastic rod becomes positively charged.

You may add to the diagram to explain your answer.

.....
..... [2]

Q1.c(2020)

A teacher has two charged rods. One rod is positively charged.

She holds the positively charged rod near the other charged rod.

The rods move towards each other, as shown in Fig. 14.2.

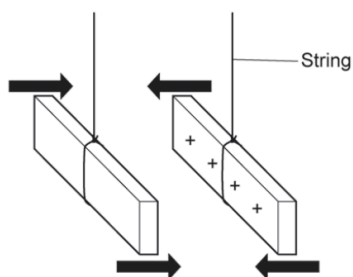


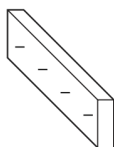
Fig. 14.2

Explain why the rods move towards each other.

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..... [2]

Q2.(2021)

A student uses friction to charge a piece of plastic.



Which statement explains why the plastic becomes **negatively** charged?

- A The plastic gains electrons.
- B The plastic gains protons.
- C The plastic loses electrons.
- D The plastic loses protons.

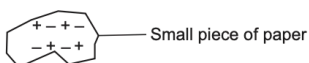
Your answer

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[1]

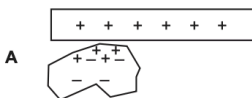
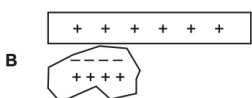
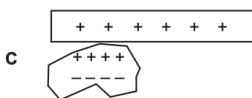
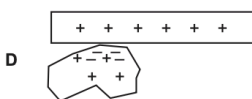
Q3.(2022)

The diagram shows a positively charged rod near a small piece of paper.



The paper is attracted to the rod.

Which diagram shows the **correct** distribution of positive and negative charges in the piece of paper as the rod is brought closer?



Your answer

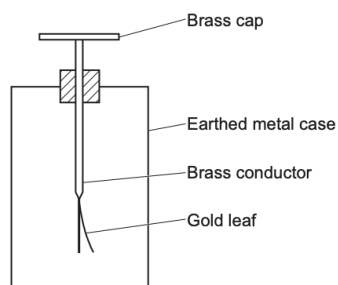
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[1]

Q4.a(2023)

Fig. 15.1 shows a gold leaf electroscope that can be used to measure electric charge.

Fig. 15.1



(a) A positively charged rod is rubbed across the brass cap of the gold leaf electroscope.

Complete the sentence to explain how the gold leaf electroscope becomes **positively** charged.

Use words from the list.

Electrons	Gold leaf electroscope	Neutrons	Protons
Positively charged rod			

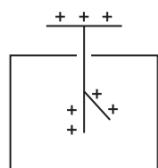
..... move from the to the
[2]

Q4.b(2023)

When the gold leaf electroscope is positively charged, the gold leaf rises.

Fig. 15.2 shows the positively charged gold leaf electroscope.

Fig. 15.2



Explain why the gold leaf rises.

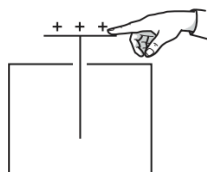
.....
..... [1]

Q4.c(2023)

A scientist earths the cap of the positively charged gold leaf electroscope by touching it with their finger.

Complete **Fig. 15.3** to show what happens to the gold leaf.
Explain your answer.

Fig. 15.3

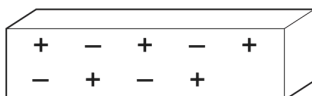


Explanation
.....
.....
..... [2]

Q5.(2024)

Objects can be charged by rubbing them with a cloth.

The diagram shows a plastic rod which has become charged.



Which statement correctly describes the plastic rod?

- A** The rod has an overall negative charge.
- B** The rod has an overall positive charge.
- C** The rod has gained neutrons.
- D** The rod has gained protons.

Your answer ☐

[1]