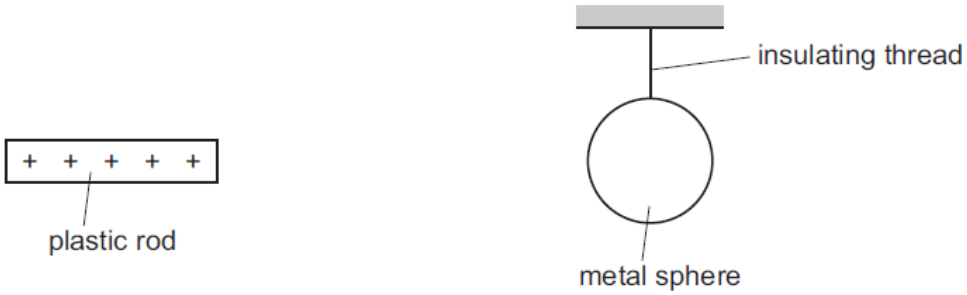
Electrostatics – 2022 June IGCSE 0625

1. June/2022/Paper_11/No.28

The diagram shows a charged plastic rod and an uncharged metal sphere. The metal sphere is suspended by an insulating thread.



The plastic rod is then moved close to the metal sphere.

Which row is correct?

	observation	the overall state of the metal sphere
A	The rod attracts the sphere.	charged
B	The rod attracts the sphere.	uncharged
C	The rod repels the sphere.	charged
D	The rod repels the sphere.	uncharged

2. June/2022/Paper_13/No.28

A girl rubs a plastic rod with a cloth. The plastic rod then repels a positively charged object.

Which row is correct?

	the state of the plastic rod	what happened when the rod was rubbed
A	negatively charged	it gained some electrons
B	negatively charged	it lost some protons
C	positively charged	it lost some electrons
D	positively charged	it gained some protons

3. June/2022/Paper_21/No.29

A plastic rod is brought near to a small plastic sphere suspended from a stand. The sphere is repelled by the rod.

Why is this?

A The rod and the sphere have like charges.

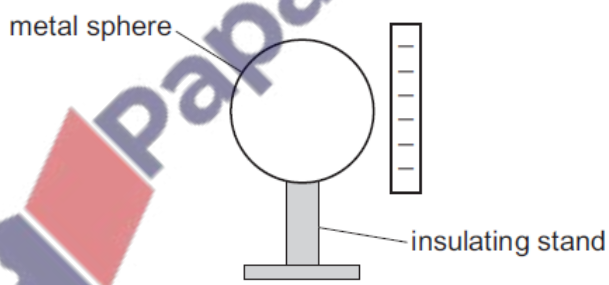
B The rod and the sphere have unlike charges.

C The rod is charged and the sphere is uncharged.

D The rod is uncharged and the sphere is charged.

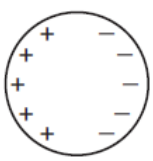
4. June/2022/Paper_22/No.29

A negatively charged rod is brought near to an uncharged metal sphere that is placed on an insulating stand.

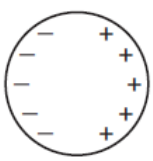


Which diagram shows the distribution of charges on the sphere?

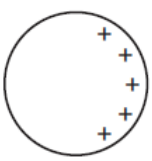
A



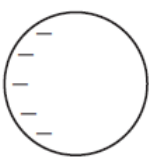
B



C

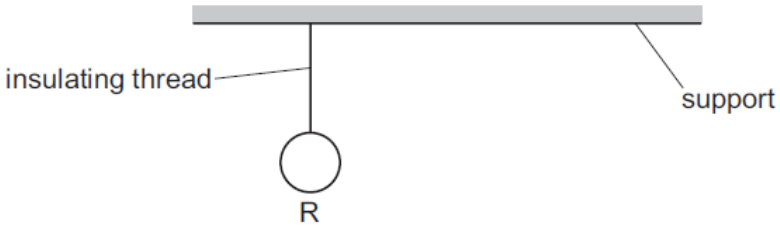


D

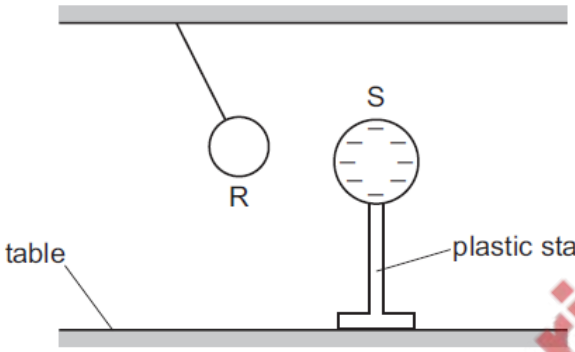


5. June/2022/Paper_23/No.29

A metal sphere R is suspended on an insulating thread.



Another sphere S is brought close to sphere R. Sphere S has a negative charge and is attached to a plastic stand. The diagram shows the spheres when they are close to each other.



Which charged state of R accounts for the behaviour in the diagram?

A negative only

B positive only

C negative or uncharged

D positive or uncharged

6. June/2022/Paper_32/No.8(c)

(c) The student attaches a thin cotton thread to each of two light metal spheres, P and Q. She suspends the spheres as shown in Fig. 8.2.

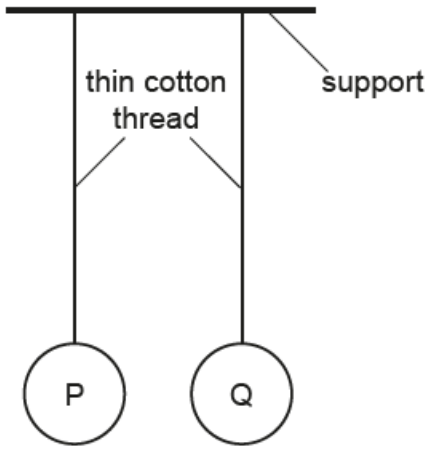


Fig. 8.2

(i) The student puts a positive charge on sphere P only.

Complete the diagram in Fig. 8.3 to show the positions of the spheres.

Fig. 8.3

[1]

(ii) The student puts a positive charge on sphere P **and** on sphere Q.

Complete the diagram in Fig. 8.4 to show the positions of the spheres.

Fig. 8.4

[2]