Mark schemes

Q1.

В

the charge stored on a capacitor consisting of two parallel plates of area 1 m^2 separated by 1 m when the potential difference between the plates is 1 V

[1]

Q2.

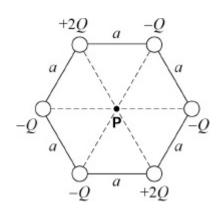
Α

16F

[1]

Q3.

D



[1]

Q4.

В

 $1.38 \times 10^{-7} \text{ V m}^{-1} \text{ downwards}$

[1]

Q5.

Α

an electron and a positive pion

[1]

Q6.

С

10³⁶

[1]

Q7. C

 $\frac{2Q}{\pi \varepsilon_0 d^2}$

[1]

Q8.

20 μΝ

[1]

Q9.

Α

vertically down the plane.

[1]

Q10. C

the electric potential of the sphere.

[1]

Q11.

С

 $4.0 \times 10^{-14} \, m$

[1]

Q12.

В

[1]

Q13. A

[1]