

ANSWERS - AP Physics Multiple Choice Practice – Electrostatics

	<u>Solution</u>	<u>Answer</u>
1.	By definition	B
2.	Since charge is free to move around on/in a conductor, excess charges will repel each other to the outer surface	E
3.	When the battery is disconnected, Q remains constant. Since C decreases when d increases and $Q = CV$, V will increase	E
4.	$E = kQ/r^2$	D
5.	$V = kQ/r$	C
6.	$W = qV$	C
7.	Since both charges are positive, the electric field vectors point in opposite directions at points between the two. At point A, the magnitudes of the electric field vectors are equal and therefore cancel out, making $E = 0$ at point A	A
8.	$V = \sum kQ/r$ and since both charges are positive, the largest potential is at the closest point to the two charges (it is more mathematically complex than that, but this reasoning works for the choices given)	A
9.	$C = \epsilon_0 A/d$; if $A \times 2$, $C \times 2$ and if $d \times 2$, $C \div 2$ so the net effect is C is unchanged	C
10.	The net charge on the two spheres is $+Q$ so when they touch and separate, the charge on each sphere (divided equally) is $\frac{1}{2} Q$. $F \propto Q_1 Q_2$ so before contact $F \propto (2Q)(Q) = 2Q^2$ and after contact $F \propto (\frac{1}{2} Q)(\frac{1}{2} Q) = \frac{1}{4} Q^2$ or $1/8$ of the original force	E
11.	$C = \epsilon_0 A/d$ and changing Q or V has no effect on the capacitance	C
12.	By definition	A
13.	$E = F/q$	E
14.	$\Delta v = at$ where $a = F/m$. So we have $\Delta v = 10^{-14} \times 10^{-8} + 10^{-20} = 10^{-22} + 10^{-20} = 1.01 \times 10^{-20}$	D
15.	Inside the metal sphere $E = 0$. Once outside the sphere E decreases as you move away so the strongest field will be the closest point to the outside of the sphere	C
16.	Newton's third law	C
17.	Where E is zero must be closer to the smaller charge to make up for the weaker field. The vectors point in opposite directions when outside the two opposite charges. These two criteria eliminate 4 of the choices.	A
18.	Charges flow when there is a difference in potential. Analyzing the other choices: A is wrong because the charge resides on the surface. For B, $E = 0$ in a charged conducting sphere. $E = kQ/r^2$ eliminates choice C. And for D, charge separation will occur, but the object will not acquire any charge.	E
19.	E is uniform between charged parallel plates therefore the force on a charge is also uniform between the plates	B
20.	$F_g = Gm_1 m_2 / r^2$ and $F_e = kq_1 q_2 / r^2$. The nuclear force does not have a similar relationship.	C
21.	$E \propto 1/r^2$ so if $r \times 2$, $E \div 4$	B
22.	While the charges may separate, the forces on the opposite charges are in opposite directions, canceling out	A

8 Ap Physics B Multiple Choice Answers

Ian Pickup



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