1- Dynamic equilibrium must have a constant :
A) velocity
B) net force acting on it
C) positive acceleration
D) negative acceleration

11- ( East = شـرق ، غرب = Westh = North ) if a man swims north with a speed $(4 \mathrm{~m} / \mathrm{s})$, across a river with current ( تيار) of (3m/s) toward West , the resultant velocity of the man (V) is:
A) $7 \mathrm{~m} / \mathrm{s}$ north-west
B) $5 \mathrm{~m} / \mathrm{s}$ north-east
C) $7 \mathrm{~m} / \mathrm{s}$ north-east
D) $5 \mathrm{~m} / \mathrm{s}$ north-west

12- The number of electrons needed to make up a charge $\mathrm{Q}=10 \mu \mathrm{C}$ is : $\left(\right.$ Electron charge $\left.=1.6^{*} 10^{\wedge}-19\right)$
A) $6.25 * 10^{\wedge} 13$
B) $1.6^{*} 10^{\wedge}-14$
C) $1.6^{*} 10^{\wedge}-13$
D) $6.25^{*} 10^{\wedge} 14$

13- If a positive charge $\left(Q_{1}\right)$ and a negative charge $\left(Q_{2}\right)$ are separated by a distance ( $d$ ), we can say that :
A) $\left(Q_{1} \operatorname{attract} Q_{2}\right)$ and $\left(Q_{2}\right.$ attract $\left.Q_{1}\right)$.
B) $\left(Q_{1}\right.$ repels $\left.Q_{2}\right)$ and ( $Q_{2}$ attract $\left.Q_{1}\right)$.
C) $\left(Q_{1}\right.$ repels $\left.Q_{2}\right)$ and ( $Q_{2}$ repels $\left.Q_{1}\right)$.
D) $\left(Q_{1}\right.$ attract $\left.Q_{2}\right)$ and $\left(Q_{2}\right.$ repels $\left.Q_{1}\right)$.

