

1. Select the correct statement
 - A. Electric field can only be generated by charges
 - B. Electric field exerts a force on a charge inside it
 - C. Electric field is generated by the force on a charge
 - D. Electric flux is a vector quantity.
2. Estimate the electric field between two large parallel plates when the plates have a charge density of $1 \text{ nano-Coulomb/m}^2$, and one plate is positively charged, the other negatively charged
 - A. 10^2 N/C and points from the positively charged plate to the negative plate
 - B. 10^{-2} N/C and points from the positively charged plate to the negative plate
 - C. 10^2 C/m^2 and it fills up between the plates
 - D. 0 N/C .
3. Electric potential
 - A. Is the work one does to move a charge inside an electric field
 - B. Is the characteristic of an electric field
 - C. Is a vector quantity
 - D. Moves electrons but not protons
4. For a point charge Q , the electric potential at a distance r from it is
 - A. A constant
 - B. A vector quantity and points radially away from the charge
 - C. Proportional to Q/r^2
 - D. Proportional to Q/r