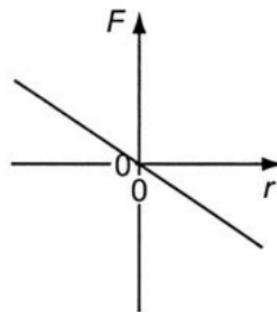
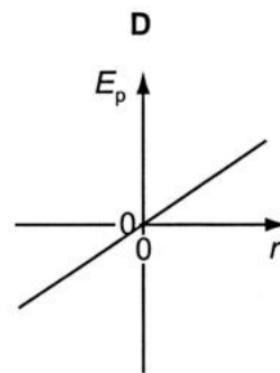
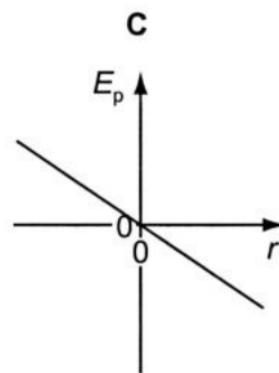
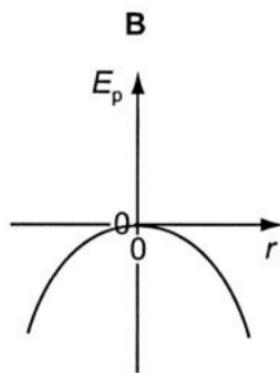
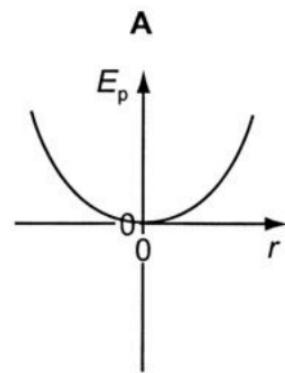


- 19 A particle is moving such that the force  $F$  on it changes with the distance  $r$  from a fixed point as shown.



Which graph shows the relationship between the potential energy  $E_p$  of the particle and the distance  $r$ ?



- 20 What is the number of hydrogen atoms, in terms of the Avogadro constant  $N_A$ , in one mole of