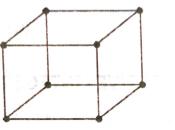
Eight particles each having mass 0.5 kg are fixed at each corner of a cube having side length 1m. Moment of inertia of system of these particles about a body diagonal of cube in kg  $-m^2$  is.



(4)
$$I = 1 \times \left(\frac{\sqrt{2}}{\sqrt{3}}\right)^2 \times 6 = 4 \text{ kg} - \text{m}^2$$