# Q. 01

If an average person jogs, he produces $14.5 \times 10^3$ cal/min. This is removed by the evaporation of sweat. The amount of sweat evaporated per minute (assuming 1 kg requires $580 \times 10^3$ cal for evaporation) is

1) 0.05 kg
2) 2.25 kg
3) 0.25 kg
4) 0.20 kg

**Sol.** 3) 0.25 kg

Given, calories produced per min = $14.5 \times 10^3$ cal/min amount of sweat evaporated is equal to the rate of calories burned.

amount of sweat evaporated/min = $\dfrac{\text{sweat produced per minute}}{\text{no.of calories required for evaporation per minute}}$

$= \dfrac{14.5 \times 10^3}{580 \times 10^3} = 0.25 \text{kg}$