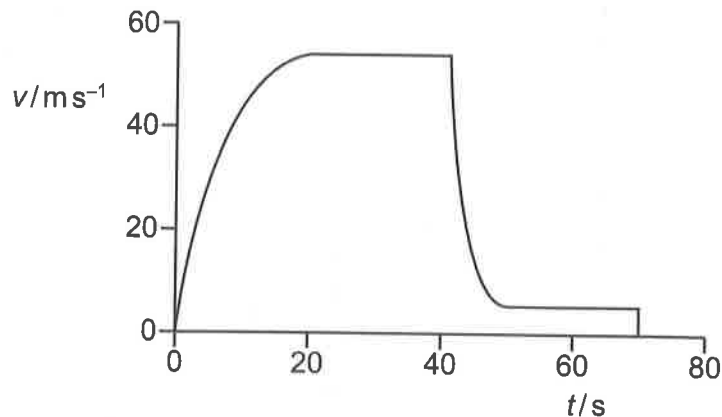5   A parachutist exits an aircraft an instant before time $t = 0$ and falls to the ground. The graph
    shows the variation of v, the vertical velocity of the parachutist downwards, with t.

Which statement about the magnitude of the resultant vertical force acting on the parachutist is
correct?

A   The resultant force at $t = 0$ is zero.

B   The resultant force at $t = 15\,\text{s}$ is greater than the resultant force at $t = 10\,\text{s}$.

C   The resultant force at $t = 30\,\text{s}$ is equal to the resultant force at $t = 60\,\text{s}$.

D   The resultant force at $t = 60\,\text{s}$ is equal to the weight of the parachutist.