

5 A raindrop is falling through the air with an increasing velocity. The forces on the raindrop are weight W , upthrust U and viscous drag F .

Which of the following shows the relationship between these forces?

☐ **A** $F + U = W$

☐ **B** $F = W + U$

☐ **C** $F + W < U$

☐ **D** $F + U < W$

(Total for Question 5 = 1 mark)