11 A steel ball is falling at a constant (terminal) speed in still air. The forces acting on the ball are upthrust, viscous drag and weight.

What is the order of increasing magnitude of these three forces?

- **A** upthrust \rightarrow viscous drag \rightarrow weight
- **B** viscous drag → upthrust → weight
- **C** viscous drag → weight → upthrust
- **D** weight → upthrust → viscous drag
- **12** What is a couple?
 - A a pair of equal forces acting in the same direction but along different lines
 - **B** a pair of forces that are equal and opposite but acting along different lines
 - **C** a pair of forces that produce no resultant force and no resultant moment
 - **D** a pair of unequal forces acting in opposite directions but along the same line
- 13 Four coplanar forces act on a rigid rod, as shown. The rod is hinged at P.

Which force produces the greatest moment about point P?

