

**14** An object, immersed in a liquid in a tank, experiences an upthrust.

What is the physical reason for this upthrust?

- A** The density of the body differs from that of the liquid.
- B** The density of the liquid increases with depth.
- C** The pressure in the liquid increases with depth.
- D** The value of  $g$  in the liquid increases with depth.

**15** A force of 1000 N is needed to lift the hook of a crane at a steady velocity. The crane is then used