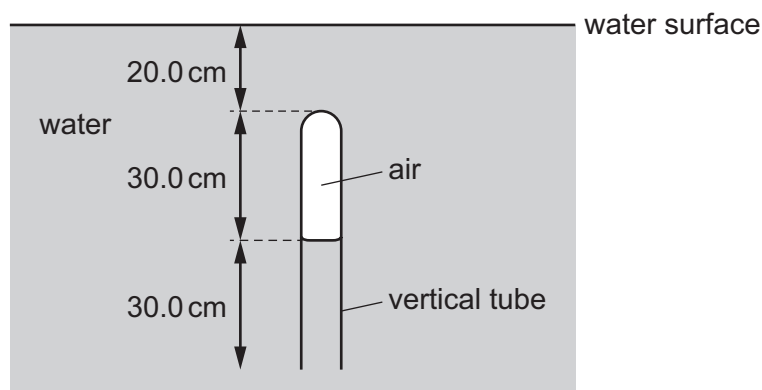


- 13** A vertical tube, closed at one end, is immersed in water. A column of air is trapped inside the tube.



The density of water is  $1000 \text{ kg m}^{-3}$ .

What is the difference between the pressure of the air in the tube and the atmospheric pressure?

- A** 1960 Pa      **B** 2940 Pa      **C** 4910 Pa      **D** 7850 Pa

- 14** A rocket is fired upwards.

As it accelerates upwards after leaving the launch pad, which forms of energy are changing?

- A** chemical energy, gravitational potential energy and kinetic energy  
**B** chemical energy and gravitational potential energy only  
**C** chemical energy and kinetic energy only  
**D** gravitational potential energy and kinetic energy only