14	An object, immersed in a liquid in a tank, experiences an upthrust.	
	What is the physical reason for this upthrust?	
	Α	The density of the body differs from that of the liquid.
	В	The density of the liquid increases with depth.
	С	The pressure in the liquid increases with depth.
	D	The value of g in the liquid increases with depth.

15 A force of $1000\,\mathrm{N}$ is needed to lift the hook of a crane at a steady velocity. The crane is then used to lift a load of mass $1000\,\mathrm{kg}$ at a velocity of $0.50\,\mathrm{m\,s^{-1}}$.

How much of the power developed by the motor of the crane is used in lifting the hook and the load? Assume that the acceleration of free fall g is equal to $10\,\mathrm{m\,s^{-2}}$.

A 5.0 kW **B** 5.5 kW **C** 20 kW **D** 22 kW

Space for working