## Wavelength in Water

## Solution:

## The correct answer is d.)

Recall that a change of medium is accompanied by a change in speed of propagation and wavelength - the frequency of the wave remains unchanged.
Thus, we have:

$$
\lambda_{\text {water }}=\frac{v_{\text {water }}}{f_{\text {water }}}=\frac{3.333 \times 10^{7} \mathrm{~ms}^{-1}}{433.92 \times 10^{6} \mathrm{~s}^{-1}}=7.68 \mathrm{~cm}
$$

