27. The bulk moduli of ethanol, mercury and water are given as 0.9, 25 and 2.2 respectively in units of $10^9 \, Nm^{-2}$. For a given value of pressure, the fractional compression in volume is $\dfrac{\Delta V}{V}$. Which of the following statements about $\dfrac{\Delta V}{V}$ for these three liquids is correct?[Online April 11, 2014]

   (a) Ethanol > Water > Mercury
   (b) Water > Ethanol > Mercury
   (c) Mercury > Ethanol > Water
   (d) Ethanol > Mercury > Water

27. (a) Compressibility $= \dfrac{1}{\text{Bulk modulus}}$

As bulk modulus is least for ethanol (0.9) and maximum for mercury (25) among ehtanol, mercury and water. Hence compression in volume $\dfrac{\Delta V}{V}$

Ethanol > Water > Mercury