

- 13 A small mass executes s.h.m. about a point O with amplitude a and period T . Its displacement from O at time $T/8$ after passing through O is

A $\frac{a}{8}$

B $\frac{a}{2\sqrt{2}}$

C $\frac{a}{2}$

D $\frac{a}{\sqrt{2}}$

