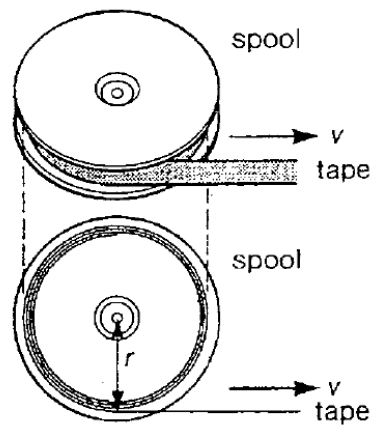10 A spool of tape is unwound such that the tape leaves the spool at a constant speed v. The distance of the tape from the centre of the spool is r.

The angular velocity of the spool

A is proportional to $\dfrac{1}{r^2}$.

B is proportional to $\dfrac{1}{r}$.

C is proportional to r.

D does not depend on r.