

- 18** A guitar string of length L stretched between two ends is plucked. It is known that the speed of transverse waves on the string is v and the speed of sound waves is c .

Which of the following expressions, in which n has integer values 1, 2, 3, ... etc., will give the frequencies of all stationary waves which can be formed on the wire?

A $\frac{nv}{L}$

B $\frac{nv}{2L}$

C $\frac{2nc}{L}$

D $\frac{nc}{L}$