

- 11** Transverse progressive sinusoidal waves of wavelength λ are passing vertically along a horizontal rope. P and Q are $5\lambda/4$ apart and the waves are travelling from P to Q. Which one of the following correctly describes Q at an instant when P is displaced upwards but is moving downwards?

	Displacement of Q	Movement of Q
A	Upwards	Downwards
B	Upwards	Upwards
C	Downwards	Upwards
D	downwards	Downwards