

21 Which of the following types of wave can be polarised?

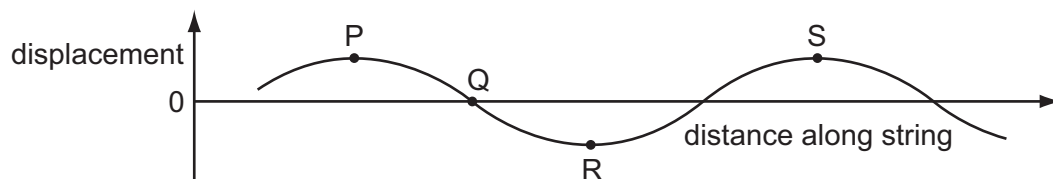
- A** a longitudinal progressive wave
- B** a longitudinal stationary wave
- C** a transverse stationary wave
- D** a transverse sound wave

22 Sound wave X has intensity 10^{12} times greater than that of sound wave Y.

By how much is the amplitude of X greater than the amplitude of Y?

- A** 10^6 times
- B** 3.16×10^6 times
- C** 5×10^{11} times
- D** 10^{12} times

23 The graph shows the shape at a particular instant of part of a transverse wave travelling along a string.



Which statement about the motion of points in the string is correct?

- A** The speed at point P is a maximum.
- B** The displacement at point Q is always zero.
- C** The energy at point R is entirely kinetic.
- D** The acceleration at point S is a maximum.