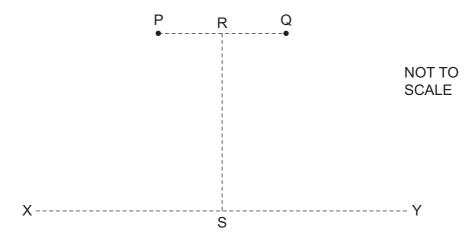
**28** P is a source emitting infra-red radiation and Q is a source emitting ultra-violet radiation. The figures in the table are suggested values for the wavelengths emitted by P and Q.

Which row is correct?

	wavelength emitted by P/m	wavelength emitted by Q/m
Α	5 × 10 <sup>-5</sup>	5 × 10 <sup>-8</sup>
В	5 × 10 <sup>-5</sup>	$5 \times 10^{-10}$
С	5 × 10 <sup>-7</sup>	5 × 10 <sup>-8</sup>
D	5 × 10 <sup>-7</sup>	$5 \times 10^{-10}$

29 Coherent waves are produced at P and at Q and travel outwards in all directions. The line RS is halfway between P and Q and perpendicular to the line joining P and Q. The distance RS is much greater than the distance PQ.



Along which line, or lines, is an interference pattern observed?

- A both RS and XY
- **B** RS only
- **C** XY only
- **D** neither RS nor XY

**Space for working**