

**26** The table shows the wavelengths of five electromagnetic waves.

Which row correctly identifies the principal radiation for each of these wavelengths?

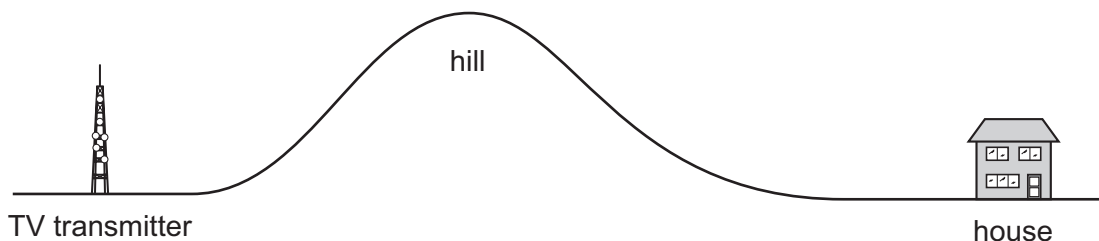
	$10^{-14}$ m	$10^{-10}$ m	$10^{-6}$ m	$10^{-2}$ m	$10^2$ m
<b>A</b>	gamma-ray	X-ray	infrared	microwave	radio wave
<b>B</b>	radio wave	microwave	infrared	X-ray	gamma-ray
<b>C</b>	radio wave	microwave	ultraviolet	infrared	X-ray
<b>D</b>	X-ray	infrared	ultraviolet	microwave	radio wave

**27** Two progressive waves meet at a point.

Which condition must be met for superposition of the waves to occur?

- A** The waves must be coherent.
- B** The waves must be of the same type.
- C** The waves must be travelling in opposite directions.
- D** The waves must meet in phase.

**28** A hill separates a television (TV) transmitter from a house. The transmitter cannot be seen from the house. However, the house has good TV reception.



By which wave effect at the hill could the TV signal reach the house?

- A** coherence
- B** diffraction
- C** interference
- D** reflection