

- 11** In microwave ovens, water molecules in food are set into resonance when microwaves of a fixed frequency are incident on them. This causes the molecules to receive energy and hence warms up the food. In order to warm up the food faster, one can
- A** increase the frequency of the incident microwave while keeping its amplitude fixed.
  - B** increase the frequency and amplitude of the incident microwave.
  - C** increase the amplitude of the incident microwave while keeping its frequency fixed.
  - D** keep both frequency and amplitude of the microwave the same as before but increase the frequency of the water molecules.