

**21** Which pair of sources is coherent?

**A** two identical light sources

**B** two loudspeakers emitting sounds of frequencies  $f$  and  $2f$

**C** two ripple tank dippers oscillating at identical frequencies in antiphase

**D** two tuning forks producing different frequencies

**22** A  $12\text{ V}$  battery, with negligible internal resistance, is connected to a resistor and two voltmeters