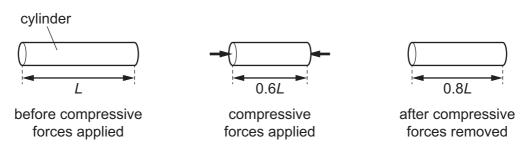
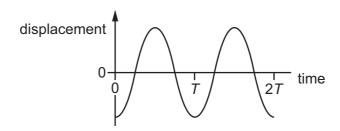
19 Compressive forces are applied normally to the end faces of a cylinder of initial length *L*. The cylinder is compressed by the forces so that its length decreases to 0.6*L*. After the compressive forces are removed, the cylinder's length increases to 0.8*L*.



What describes the deformation of the cylinder when its length was 0.6*L*?

- A both elastic and plastic
- B elastic only
- C plastic only
- **D** neither elastic nor plastic
- **20** When sound travels through air, the air particles vibrate. A graph of displacement against time for a single air particle is shown.



Which graph shows how the kinetic energy of the air particle varies with time?

