

9. A piece of brass undergoes the following three processes involving a change of energy:

*P*: It is lifted vertically 2 m

*Q*: it is heated from 15°C to 20°C

*R*: It is accelerated from rest to 10 m s<sup>-1</sup>

The specific heat capacity of brass is 380 J<sup>-1</sup> K<sup>-1</sup> kg<sup>-1</sup>.

These processes, arranged in order of increasing energy change are

**A** *PQR*

**B** *QPR*

**C** *QRP*

**D** *PRQ*