

6. The total mass of a motorcycle and rider is 250 kg.

During braking they are brought to rest from a speed of 16 m s^{-1} in a time of 10.0 s.

The maximum energy that could be converted to heat in the brakes is

A 2000 J

B 4000 J

C 32 000 J

D 40 000 J

E 64 000 J.