

Possess

greater potential energy.

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at The mass of the body : Greater than mass of the body, greater is the potential energy of the body.

at Its height above the ground : Higher the height of the body, greater is its potential.

8. Two bodies A and B of masses 10 kg and 20 kg respectively are at the same height above the ground. Which of the two has greater ~~than~~ potential energy?

Ans) The body B having mass 20 kg has the greater potential energy. This can be

$$P.E = mgh$$

for both the bodies 'gravity' and height are same so the body with ~~gravity~~ greater mass

4. What are the two kinds of ~~force~~ mechanical energy?

Ans. Potential and kinetic energy.

5. What is potential energy state its unit.

Ans. Potential energy of a body is the energy possessed by it due to its state of rest or position.

7. State two factors on which the potential energy of a body at a certain height above the ground. Which of the two has greater potential energy?

Ans. The potential energy of a body in the raised position depends upon the following two factors: