

Science 10 Assignment U2L7 (44 marks)

1. *Why is potential energy not as obvious as kinetic energy ? (1 mark)*

Because it potential energy cannot be easily seen and may remain a static form of energy for long periods of time.

2. *Identify the type of potential energy in the following situations : (5 marks)*

- a) *a rubber ball striking a wall is compressed and deformed at the exact moment it strikes the wall.*
Elastic Potential energy
- b) *An elevator in an office building slowly rises to the 20th floor and then stops.*
Gravitational Potential energy
- c) *A bow string is slowly drawn back, bending a fiberglass bow :*

Elastic Potential energy

- d) *An arrow rises vertically into the air after a bow string is released.*

Elastic potential becoming gravitational potential energy

- e) *Natural gas burns in a fireplace.*

Chemical Potential energy.

3. *State two differences between kinetic energy and gravitational potential energy. (2 marks)*

- **Kinetic energy is related to velocity and not position.**
- **Kinetic energy is not measured relative to any specific position but rather it is related to a certain frame of reference.**

4. *A force of 32.0 N is required to lift a box 3.00 m vertically against the force of Earth's gravity.*

- a) *Calculate the work done against Earth's gravitational field. (3 marks)*

$$F_g = 32.0\text{N}, d = 3.00\text{ m}$$

$$W = F \cdot d = 32.0\text{N} \cdot 3.00\text{ m} = 96.0\text{ J}$$

- b) *Calculate the gravitational potential energy stored in the box. (3 marks)*

$$F_g(mg) = 32.0\text{N}, h = 3.00\text{ m}$$

$$E_p = mgh = 32.0\text{N} \cdot 3.00\text{ m} = 96.0\text{ J}$$

5. *An object gains 155 J of gravitational potential energy when it is lifted 1.30 m above the surface of Earth. Calculate the force exerted on the object. (3 marks)*

$$W = 155\text{J}, d = 1.30\text{ m}, f = ?$$

$$W = f \cdot d, F = W/d = (155\text{J})/1.30\text{m} = 1.19 \times 10^2\text{ N}$$

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