



8. The Law of Conservation of Energy states:

- a) Energy can be created or destroyed but not transformed
- b) Energy cannot be created or destroyed, it can only be transformed
- c) Energy can't be created, destroyed or transformed

9. Potential or kinetic?

Stretched bow and arrow?

- a) kinetic
- b) potential

10. Potential or kinetic?

Running?

- a) potential
- b) kinetic

11. **What are the two factors that influence kinetic energy?**

- a) mass and weight
- b) Speed and weight
- c) speed and mass
- d) particles and objects

12. Energy is the ability to do \_\_\_\_?

- a) to do work
- b) to move object
- c) to turn on a light
- d) to power things

13. The faster an object moves, the \_\_\_\_\_ kinetic energy it has.

- a) more
- b) less
- c) all of the above
- d) none of the above

14. \_\_\_\_\_ is stored energy

- a) Potential
- b) Kinetic
- c) none of the above
- d) all of the above

15. **Which type of energy is converted when fireworks release heat, light, and sound?**

- a) kinetic energy
- b) elastic potential energy
- c) chemical potential energy
- d) electromagnetic energy

16. **As height increases, so does...**

- a) Thermal energy
- b) Mechanical energy
- c) Kinetic energy
- d) Potential energy

17. **Gravitational potential energy depends on...**

- a) Height
- b) Speed
- c) Light
- d) Time

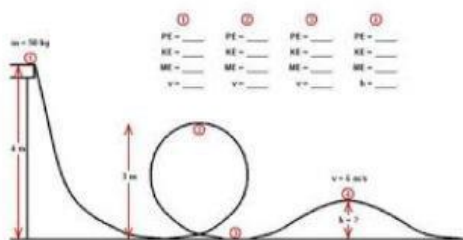
18. **An object that has kinetic energy must be...**

- a) lifted above earth's surface.
- b) in motion
- c) at rest
- d) none of the above

19. **This is the type of energy stored in a battery.**

- a) Gravitational energy
- b) Elastic energy
- c) Nuclear energy
- d) Chemical energy

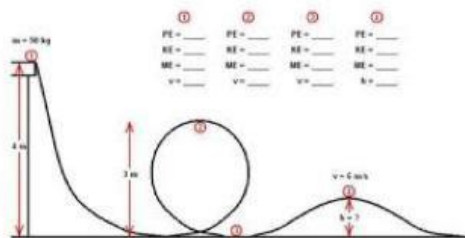
20.



At which point would this roller coaster possess the greatest amount of potential energy?

- a) 1
- b) 2
- c) 3
- d) 4

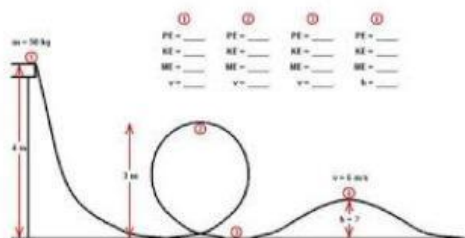
21.



At which point would this roller coaster possess the most kinetic energy?

- a) 1                                      b) 2  
c) 3                                      d) 4

22.



At which point on this roller coaster would the amount of total energy equal the amount of potential energy?

- a) 1                                      b) 2  
c) 3                                      d) 4