

## Grade 5 EVS – Question Bank

### Force, Work, and Energy

#### Answer the Following

1. \*\*What is force?\*
2. \*\*Name two effects force can have on an object.\*\*\*
3. \*\*List three types of forces mentioned.\*\*\*
4. \*\*What type of force is responsible for objects falling to the ground?\*\*\*
5. \*\*Which type of force involves muscles?\*\*\*
6. \*\*What type of force can change the shape of an object?\*\*\*
7. \*\*How do machines help us in our work?\*\*\*
8. \*\*Name two simple machines.\*\*\*
9. \*\*What form of energy does the Sun provide?\*\*\*
10. \*\*Identify two sources of energy.\*\*\*
11. \*\*What type of energy is produced by wind?\*\*\*
12. \*\*Give an example of mechanical energy.\*\*\*
13. \*\*Which simple machine consists of a wheel with a rope around it?\*\*\*
14. \*\*Name the simple machine that is an inclined surface.\*\*\*
15. \*\*What is the purpose of an inclined plane?\*\*\*
16. \*\*How does frictional force act on a moving object?\*\*\*
17. \*\*What type of energy is used by solar panels?\*\*\*
18. \*\*Which type of energy is associated with heat?\*\*\*
19. \*\*How does geothermal energy originate?\*\*\*
20. \*\*What is the role of an axle in a wheel and axle machine?\*\*\*

#### Long Answer Questions

1. \*\*Describe the different ways in which force can affect an object.\*\*\*
2. \*\*Explain the role of gravitational force in our daily life.\*\*\*
3. \*\*How does frictional force affect motion, and why is it important?\*\*\*
4. \*\*Discuss the importance of elastic force in everyday applications.\*\*\*
5. \*\*Describe how muscular force is utilized in various activities.\*\*\*
6. \*\*How do machines simplify and speed up work? Provide examples.\*\*\*
7. \*\*Explain the working and purpose of a lever as a simple machine.\*\*\*
8. \*\*Discuss the principles behind the pulley and its applications.\*\*\*

9. **How does an inclined plane reduce the effort needed to lift objects?**
10. **Describe the different forms of energy and give an example of each.**
11. **Explain how solar energy is harnessed and used for electricity generation.**
12. **Discuss the advantages and disadvantages of wind energy.**
13. **Describe how water energy is converted into electrical energy.**
14. **Explain the concept of geothermal energy and its applications.**
15. **Compare and contrast mechanical energy and electrical energy, providing examples of each.**
16. **Discuss the significance of simple machines in historical developments and modern engineering.**
17. **How do the principles of simple machines apply to modern technology and innovation?**
18. **Describe a real-world scenario where multiple types of forces act simultaneously.**
19. **Explain how different sources of energy can be integrated to provide a sustainable energy solution.**
20. **Discuss the role of renewable energy sources in combating climate change.**