Push and Pull

A. Choose the Correct Answer:

1. What is a push?

A) A force that moves an object away

B) A force that brings an object closer

C) A type of energy

D) A form of gravity

2. Which of the following is an example of a pull?

A) Kicking a football

B) Closing a drawer

C) Tugging a rope towards yourself

D) Pushing a shopping cart

3. What happens when you push a toy car on a smooth surface?

A) It stays in one place

B) It moves away from you

C) It comes closer to you

D) It disappears

B. Fill in the Blanks:

1.A _____ is a force that moves an object away from you.

2.A _____ is a force that brings an object closer to you.

3.When we apply a force to an object, it can change its _____ or _____.

C. Case Study:

A teacher conducted an experiment in class to explain push and pull. She gave her students different objects like toy cars, books, and rubber bands. She asked them to either push or pull the objects and note what happened.

Observations:

- When students pushed the toy cars, they moved forward.
- When they pulled the books, the books moved closer to them.
- When they stretched and released the rubber band, it moved in the opposite direction.

Case Study Questions:

1.What was the teacher trying to demonstrate through this experiment?

2.What happened when students pushed the toy cars?

3.How does pulling an object affect its movement?

4.What can we learn about force from this activity?

D. Short Answer Questions:

1.What is the difference between push and pull?

2.Give two real-life examples of pushing and pulling.

3.How does force help us in our daily activities?

E. Long Answer Questions:

1.Explain with examples how pushing and pulling forces are used in sports.

2.Describe how force can change the direction, shape, or speed of an object.

3.Discuss how machines like bicycles and cars use both push and pull forces to work.