

CHAPTER-5 | Exploring Force

QUIZ
PART-01

1. A force is defined as:

- A. Energy
- B. Push or pull
- C. Weight
- D. Speed (B)

Explanation: Force is a push or pull on an object.

2. The SI unit of force is:

- A. Joule
- B. Watt
- C. Newton
- D. Pascal (C)

Explanation: Force is measured in newton (N).

3. Force can change:

- A. Colour
- B. Speed
- C. Temperature
- D. Mass (B)

Explanation: Force can change speed of motion.

4. Force can change the:

- A. Shape of object
- B. Density
- C. Volume always
- D. Mass (A)

Explanation: Force may deform objects.

5. Without applying force, a box:

- A. Moves automatically
- B. Stays at rest
- C. Floats
- D. Vibrates (B)

Explanation: No force means no motion change.

6. Interaction between objects produces:

- A. Heat
- B. Force
- C. Light
- D. Energy (B)

Explanation: Force arises from interaction.

7. Applying brakes on bicycle shows force can:

- A. Increase speed
- B. Stop motion
- C. Change colour
- D. Float (B)

Explanation: Brakes reduce speed.

8. Force is always:

- A. Between two objects
- B. Alone
- C. Invisible
- D. Permanent (A)

Explanation: Force requires interaction.

9. When you push a table, it:

- A. Does nothing
- B. Pushes back
- C. Floats
- D. Breaks (B)

Explanation: Action–reaction occurs.

10. Force symbol is:

- A. J
- B. N
- C. W
- D. Pa (B)

Explanation: N represents newton.