

CHAPTER-9 | Gravitation

QUIZ
PART-03

1. What is the SI unit of mass?

- A. Newton
- B. Kilogram
- C. Meter
- D. Gram (B)

Explanation: SI unit of mass is kilogram (kg).

2. Which of the following is a scalar quantity?

- A. Weight
- B. Force
- C. Mass
- D. Velocity (C)

Explanation: Mass has only magnitude, not direction.

3. What is the unit of weight in the SI system?

- A. Kilogram
- B. Meter
- C. Newton
- D. Gram (C)

Explanation: SI unit of weight is Newton (N).

4. The weight of a body becomes zero at which location?

- A. At the center of the Earth
- B. At the poles
- C. At the equator
- D. On the surface of the Moon (A)

Explanation: Gravitational pull cancels out at Earth's center.

5. What is the weight on the Moon compared to Earth?

- A. Same
- B. One-sixth
- C. Zero
- D. Double (B)

Explanation: Weight is one-sixth on the Moon.

6. Which instrument measures weight?

- A. Beam balance
- B. Spring balance
- C. Thermometer
- D. Barometer (B)

Explanation: Spring balance measures weight.

7. What happens to weight from poles to equator?

- A. Same
- B. Decreases
- C. Increases
- D. Zero (B)

Explanation: Weight decreases due to Earth's rotation.

8. What attracts a body to Earth?

- A. Inertia
- B. Thrust
- C. Gravitational force
- D. Normal force (C)

Explanation: Gravitational force attracts objects to Earth.

9. How is mass measured?

- A. Spring balance
- B. Beam balance
- C. Scale
- D. Force meter (B)

Explanation: Mass is measured using a beam balance.

10. What happens to mass when taken from Moon to Earth?

- A. Increases
- B. Same
- C. Decreases
- D. Zero (B)

Explanation: Mass remains unchanged.