## 12 Lecture - PHY101

## **Important Mcqs**

Which of the following is an example of a system of many particles?
a) A single atom
b) A bowling ball
c) A gas in a container
d) A photon
Answer: c) A gas in a container
What is the name for the force that acts between particles that have an electric charge?
a) Gravitational force
b) Electromagnetic force
c) Strong nuclear force
d) Weak nuclear force
Answer: b) Electromagnetic force
What is the name for the property of a material that describes how easy it is to bend or deform?
a) Density
b) Elasticity
c) Hardness
d) Brittleness
Answer: b) Elasticity

Which of the following is an example of a non-conservative force?

- a) Gravity
- b) Elastic force

c) Friction
d) Electrostatic force
Answer: c) Friction
What is the name for the quantity that describes how much matter is in a given space?
a) Volume
b) Density
c) Mass
d) Weight
Answer: b) Density
What is the name for the force that acts between particles that have mass?
a) Gravitational force
b) Electromagnetic force
c) Strong nuclear force
d) Weak nuclear force
Answer: a) Gravitational force
What is the name for the property of a material that describes how much it can be compressed or squeezed?
a) Density
b) Elasticity
c) Hardness
d) Compressibility
Answer: d) Compressibility
Which of the following is an example of a conservative force?
a) Gravity
b) Elastic force

c) Friction
d) Electrostatic force
Answer: a) Gravity
What is the name for the property of a material that describes how much it resists being pulled apart?
a) Density
b) Elasticity
c) Hardness
d) Tensile strength
Answer: d) Tensile strength
What is the name for the quantity that describes the amount of matter in an object?
a) Volume
b) Density
c) Mass
d) Weight
Answer: c) Mass