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Where Minds Pollinate

**Class 9
Physics**

Chapter 9

Handwritten Notes

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6, Dec, 2024

Friday

Chapter # 09

Nature of Science And Physics

Q2 Define terms theory and law?

Ans/ **Theory**: Theory is well supported explanation of some aspect of natural world of observation.

- Theory of Gravity explains why objects falls towards earth.
- Theory of evolution explains diversity of life in earth.

Laws: Law is a statement that describes a relationship between observable quantities, it is often expressed Mathematically.

- Newton's Law of Motion:
- Laws of Conservation of Energy-

3. Define Hypothesis?

Ans/ Hypothesis is a testable statement or prediction about relationship b/w two or more variable, it serves as a starting point for an experiment or investigation where research can test its validity through observation and experiment-

Dec, 4, 2024

4. What is difference b/w classical and Quantum Mechanics.

Classical Mechanic

* Classical mechanics describes motion of macroscopic objects.

* Classical mechanics don't explain wave particle duality.

* In classical mechanics, the systems are continuous.

* In classical mechanics future events are predictable.

Quantum Mechanic

Quantum mechanics describes motion of microscopic objects.

Quantum mechanics explains wave-particle duality.

Quantum mechanics predicts discreteness.

In Quantum mechanics future events are unpredictable.