

# GENERAL SCIENCE

## No. of Lectures

- 12-1. The Science of life
- Origin of life
  - Four groups of biological entities
  - The five kingdoms

- 12-2. Basic cell biology
- The cell
  - The structure and functions
  - Cell divisions

- 12-3. States of Matter
- Characteristics and phases of matter
  - Mixtures, solutions and solubility
  - Mole concept and Avogadro's hypothesis

- 12-4. Chemistry in Everyday Life
- Acids, bases and pH scale
  - Salts
  - Drugs
  - Dyes
  - Soaps, glass, cement, coal
  - Radioactivity

- 12-5. Mechanics
- Newton's law of motion
  - Types of motion
  - Force
  - Work
  - Energy
  - Power

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## REFERENCES

1. <http://NCERT.NIC.in>
2. General Science. Pearson Publication.
3. Chemistry in Daily Life by Kripal Singh. PHI Learning Private Ltd.
4. Essential of physical chemistry. Arun Bahal, B.S. Bahal, G.D. Tuli. S. Chand publication.
5. Cell Biology by C.B. Powar. Himalya Publication.
6. Mechanics by D.S. Mathur. S. Chand publication, New Delhi.
7. Mechanics by Dilip Sharma and K.K. Pathak. Vishal Publications. Co. New Delhi.

