



Code	Subject Title	Cr. Hrs	Semester
GS-211	General Science	3	IV
Year	Discipline		
2	Political Science, Urdu, Education Elementary		

1. Scientific Methods

- a) Observations
- b) Hypothesis
- c) Theory
- d) Role of Statistics in Research

2. Matter and Forces

- a) Role of Statistics in Research
- b) Types of matters
- c) Atomic theory of Matter
- d) Elements and Compounds
- e) Mixtures and Solutions
- f) Molecular structure
- g) Force
- h) Motion
- i) Speed
- j) Velocity
- k) Acceleration
- l) Equation of motion
- m) Laws of Motion

3. Energy

- a) Role of Statistics in Research
- b) Work, Resistance / Friction
- c) Theory of Energy
- d) Conversation of Energy from one form to another
- e) Law of conversation of energy

4. Heat and Light

- a) Heat
- b) Transfer of Heat
- c) Measurement of Heat and its units
- d) Evaporation
- e) Sources of Light
- f) Reflection of Light
- g) Regular and irregular reflection
- h) Spherical Mirrors
- i) Total internal reflection
- j) Lenses and image formation
- k) Structure of Eye and Camera

5. Structure of Cell

- a) Structure of animal and plant cell



- b) Cell division
- c) Cell Theory
- d) Variation in Human Life
- e) Role of Genes in Human Life
- f) Twin and its types

6. Ecology

- a) Factors Effecting Ecology
- b) Biotic Components of ECO System
- c) Abiotic Components of ECO System
- d) Food Chain
- e) Algae and Fungal
- f) Animals and its importance

7. Human Systems

- a) Blood circulatory system
- b) Digestic system
- c) Reproductive system
- d) Reproductive system
- e) Excretory system

8. Metals

- a) Difference between metals and non metals
- b) Formulae of different compounds
- c) Extraction of Metals from its ore
- d) Alloys
- e) Rusting and corrosion

9. Non Metals

- a) Gases and their Preparation
- b) Oxygen and its preparation
- c) Hydrogen an
- d) Nitrogen
- e) Halogen

Recommended Books:

1. Agha Khan University Examination Board (2002) General Scieine IX-X (based on National Curriculum 2002). Karachi: AGKEB.
2. William Lewis Eikenberry (2008) The teaching of general science, The University of Chicago Press.