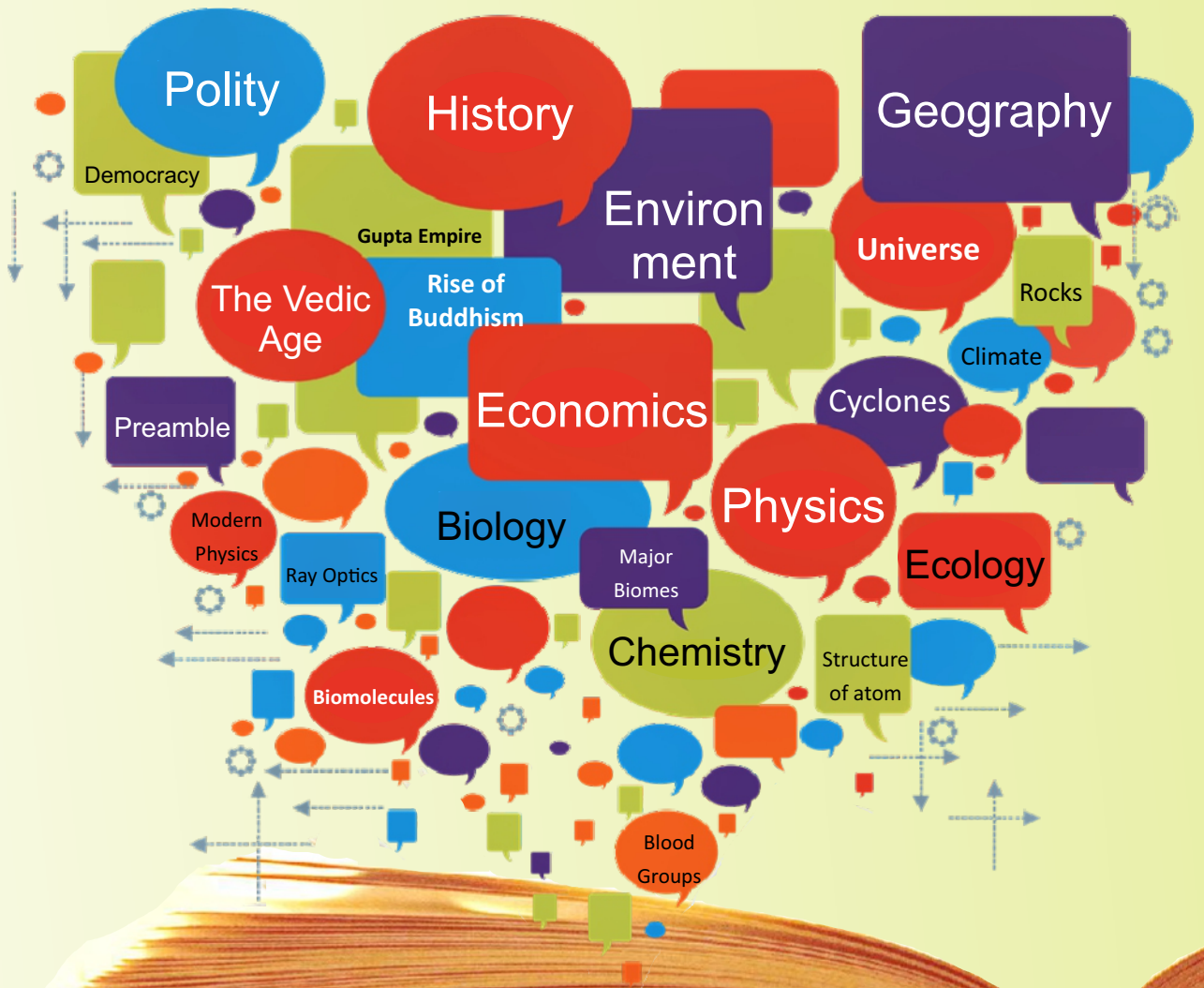


GS NCERT





GS NCERT CONCEPT



Where to start ?

The major challenge faced by aspiring students of various educational backgrounds is the overwhelming volume of content available which ends up tormenting the aspirants and they are not able to assess the point from which to start and prepare a definite study plan. There are many books of popular publications which simply are a collection of facts and data which the aspirant is required to memorize without proper understanding of the concepts. Such books do help to some extent in qualifying Group C and Group D post exams but when it comes to Group A and Group B exams like IAS, State PCS, CDS, NDA, SSC, CAPF, IES etc. an aspirant stands no chance of beating the competition without the understanding of basic fundamentals of the relevant subjects.

What is actual requirement ?

Group A & Group B exams are usually conducted by UPSC & State PCS. The questions asked in these exams are based on basic concepts, interlinking various subjects & concepts in applied form. NCERT books of class 6th to 12th explain basics in a very simple language and help us understand the concept which directly helps us to be able to mark the right answer while eliminating the incorrect ones.

Why NCERT ?

- Being the most basic books and written in very simple language, lucid and neutral perspective makes NCERT the base for the entire preparation.
- NCERT books cover topics in a well framed manner starting with basics and going on to an advanced level.
- NCERT books contain questions that are relevant from the perspective of various exams.
- Source of information of NCERT books is genuine as it is provided by the government agencies and institutions.
- NCERT books are written by experts after much research.

Challenges in reading NCERT books ?

If we take into account the subjects that need to be covered (History, Polity, Geography, Economics, Environment & Science etc.), there are over a hundred NCERT books to be read which itself is a daunting task. It is imperative for the aspirant to know the relevant concepts and also the important areas from where questions can arise. Lack of planning and guidance leads to wastage of time reading matter which is not relevant from the examination perspective. Also, most of the aspirants underestimate the value of old NCERT books which provide us with questions asked in exams.

What is GS - NCERT Product ?

GS-NCERT Product of Galaxy tries to solve the above mentioned problems. We have summarized 100+ NCERT books in simple booklets related to various subjects. Each booklet not only covers the 6th to 12th NCERT concepts but also helps in interlinking related concepts. An attempt has been made to maximize output with minimum effort. We have tried to explain concepts through maps and graphs which we felt the aspirant will find difficult to understand from NCERT books directly.

Our main objective is to provide an understanding of various concepts asked in Group A & Group B exams while inculcating the skill of writing answers. We have developed the content in an easy-to-understand language and in tune with the requirement of main stages of these exams.



Salient Features

- ✓ Focus on Conceptual clarity instead of rote learning
- ✓ Gradual advancement of the topics starting with basics
- ✓ Eliminates studying of individual NCERT books
- ✓ Classes and Study Materials are both in Hindi & English Medium
- ✓ One to One doubt sessions
- ✓ Competent faculty with 10+ years of experience
- ✓ Weekly Current Affairs sessions
- ✓ Compilation of Old & New NCERT books



Galaxy
Delivering Knowledge
Enabling Understanding

Batch:

Date:

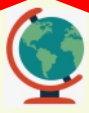
Time:

Course Duration:

Fees:



The Expert in anything was once a beginner.



GEOGRAPHY

World Geography



Topic - 1

- Origin of Universe and Solar system
- Origin and Evolution of the Earth and other Celestial bodies (Stars, Planets, Satellites, Asteroids, Meteoroids, Comets)



Topic - 2

- Latitude, Longitude, Motion of the Earth and their effects.
- Time line, Date line



Topic - 3

- Major domains of the Earth



Topic - 4

- Interior of the Earth
- Minerals & Rocks

Topic - 5

- Distribution of Ocean and Continents

Topic - 6

- Landforms and their evolution
- Major Landforms of the Earth

Topic - 7

- Composition & Structure of atmosphere
- Solar radiation, Heat balance and Temperature

Topic - 8

- Atmospheric Circulation & Weather system
- Water in atmosphere
- Oceans, Movement of Oceanic Water

Topic - 9

- World climate and climate change
- Natural Vegetation and Wildlife

Human Geography



Topic - 10

- Human Geography- Nature and scope
- World Population- Distribution, Density and Growth



Topic - 11

- Population Composition
- Human Development



Topic - 12

- Human Activities- Primary, Secondary, Tertiary and Quaternary
- Transport and Communication



Topic - 13

- International Trade
- Human Settlements

Indian Geography



Topic - 14

- India- Size and Location
- Physical features of India



Topic - 15

- Drainage System(Our Rivers)
- Indian Climate (Monsoon)



Topic - 16

- Indian Soils- Formation and Their types
- Indian Vegetation, Forests & Wildlife



Topic - 17

- Natural Hazards and Disasters- Causes, Consequences and Management

Economic Geography & Resources of India



Topic - 18

- Indian Population- Distribution, Density and Growth
- Migration- Types, Causes & Consequences



Topic - 19

- Human Development and Settlement in India



Topic - 20

- Land Resources and Agriculture
- Water Resources- Distribution and Utilization



Topic - 21

- Mineral and Energy Resources- their locations in India

Topic - 22

- Manufacturing Industries- their location factors

Topic - 23

- Planning and Sustainable Development

Topic - 24

- Transportation, Communication and International Trade



HISTORY

Ancient History



Topic - 1

The Pre-History

- The Stone Age
- The Palaeolithic Age
- Important Areas of Palaeolithic Age
- Classification of Lithic Cultures

Indus Valley Civilization

- Introduction and Discovery
- Geographical extent
- Civilization
- Town Planning
- Art and Architecture
- Decline of Civilization

Topic - 2

The Vedic Age

- The Aryans
- Early Vedic Age
- Socio- economic Life
- Later Vedic Age
- Later Vedic Culture and Society
- Vedic Literature



Rise of Jainism

- Reason for the emergence of new religious ideas
- Jainism and Swami Mahavira
- Jain Councils
- Spread and Contribution of Jainism to the society
- Jain Philosophy

Topic - 3

Rise of Buddhism

- Doctrine of Buddhism
- Buddhist Sangha and literature
- Contribution of Buddhism
- Buddhist Philosophy

First Territorial States

- The Mahajanpadas
- Republics in 6th Century BC
- The Haryanka Dynasty
- Rise of Magadha



Topic - 4

The Mauryan Empire

- Origin of Mauryan Rule
- Literary source for the Mauryan Period
- Mauryan kings.
- Socio-Economic life
- Mauryan Administration and Economy
- Decline of Mauryan empire
- Post Mauryan period

Topic - 5

The Sangam Age

- Kingdoms during Sangam Age
- Sangam Administration
- Important works during Sangam period

Gupta Empire

- Rise of Guptas
- Dynastic History of Guptas
- The Gupta



Administration & Economy

- Art and Architecture of Gupta Age
- Decline of Gupta Empire

Topic - 6

Post Gupta Era

- North Indian Kingdoms
- Socio-Economic changes
- Cultural Development
- Religious Development
- Six schools of Philosophy

South Indian Kingdoms

- Dynasties
- Administration & Economy
- Literature
- Art & Architecture

Medieval History



Topic - 7

Medieval India (750-1200)

- Features of Early Medieval India
- The Rajputs
- The Rastrakutas
- Arab Conquest of Sindh
- The Ghaznavids

Topic - 8

The Delhi Sultanate

- Foundation of Muslim states
- Dynasties of Sultanate period



- Administration of Sultanate period
- Economy of Sultanate period
- Social life-Class Division
- Architecture Under Various Dynasties of Sultanate period

Topic - 9

Independent Kingdoms of Deccan

- Vijaynagara Empire (Administration, Economy, Society)
- Bahmani Kingdom



Religious Movements in Medieval India

- Sufi Movement, Bhakti Movement
- Causes for the emergence of Bhakti Movement

Topic - 10

The Mughal Empire

- Mughal and later Mughal Kings
- Mansabdari system, Jagir System
- Mughal and Revenue system



- Zabt and Dabsala System
- Development of Mughal Architecture and literature

Topic - 11

The Maratha Empire

- Shivaji and his successors
- Maratha Administration
- Peshwas and later Peshwas



The more you know about the past, the better prepared you are for the future. - Theodore Roosevelt



Modern History



Topic - 12

- Decline of Mughal Empire
- Rise of Autonomous States
- Social and Economic condition in 18th Century
- Advent of Europeans and British conquest in India
- Anglo - French struggle
- British Conquest of Indian states

Topic - 13

- British Administrative Structure and Economic Policies
- Economic Colonialism and Exploitation during British rule.



Topic - 14

- Development of Modern Education
- Phases of British Education Policy
- Development of Indian Press

Topic - 15

Revolt of 1857

- Causes of Revolt
- Impact of Revolt
- British Administrative changes after Revolt

Topic - 16

Important rebellions in India

- Tribal Revolts
- Non-Tribal Revolts
- Peasant Revolts
- Military Revolts



Topic - 17

Socio-Religious Reform Movements in India

- Brahmo Samaj, Arya Samaj etc.
- Causes of Socio-Religious Reforms
- Impacts of Socio-Religious Reform Movements

Topic - 18

Rise of Indian Nationalism (1885-1905)

- Factors for the growth of Nationalism
- Programme and Activities of early Nationalist
- Foundation of Congress
- Moderates and era of early Nationalist



Topic - 19

Rise of Extremism in Indian Politics (1905-1918)

- Swadeshi Movement
- Surat Split
- Foundation of all India Muslim league
- Revolutionary Activities during 1st world war
- Home Rule Movement in India

Topic - 20

Struggle for Independence (1919-27)

- Advent of Mahatma Gandhi
- Rowlatt Act and Satyagraha
- Non-Cooperation Movement
- Khilafat Movement
- Swaraj Party



Topic - 21

Struggle for Independence (1927-39)

- Simon Commission
- Nehru Report
- Lahore Session of Congress
- Dandi March and Civil Disobedience Movement
- Gandhi-Irwin pact
- Round table conferences



Topic - 22

Struggle for Independence (1940-47)

- August Offer
- Cripps Mission
- Quit India Movement
- Wavell Plan and Shimla Conference
- Cabinet Mission
- Mountbatten Plan
- Partition of India

World History



Topic - 23

- Renaissance - Discovery of Sea Routes
- The American War of Independence
- French Revolution
- Spread of Colonialism – Imperialism
- Agricultural and Industrial Revolutions



Topic - 24

- First World War
- Russian Revolution of 1917
- The League of Nations
- Rise of Fascism and Nazism
- Second World War





POLITY



Topic - 1

- > Political Theory Introduction
- > Various ruling Systems of the world
- Monarchy, Autocracy, Feudalism, Federalism, Republic, Communalism and Democracy

Democracy

- Types of Democracy
- Need of Democracy in Modern World.
- Key Concepts of Democratic Government

Idea of Nation and state Distinction between Society, Nation, State and Govt.



Topic - 2

Constitution-what, why & how?

- Historical background of Indian Constitution
- Company Rule (1773-1858) & Crown Rule (1858-1947)

Making of Indian Constitution

- Constituent Assembly Composition
- Working Committees and Criticism
- Enactment and Enforcement of Constitution
- Salient features and criticism of the Constitution



- Sources of Indian Constitution

Topic - 3 Philosophy of the Constitution

- Freedom, Equity and Equality
- Rights, Social Justice, Nationalism, Secularism, Universal Adult Franchise, Peace, Development, Diversity and Discrimination.

Preamble

- Key words, (Significance & Amendability of the Preamble)



Topic - 4

- Union & its territory
- Citizenship

Topic - 5 Rights in the Indian Constitution and their Protection

- Kinds of rights- Fundamental Rights, Human Rights, Legal Rights
- Political Rights.
- Significance of Fundamental Rights.
- Exceptions and Criticism of Fundamental Rights.



Topic - 6 Directive Principles of State Policy (DPSP)

- Features, Classification, Implementation and Criticism of DPSP.
- Conflict between Fundamental Rights & Directive Principles.
- Utility of DPSP.

Fundamental Duties (FD)

- Features, Significance and Criticism of Fundamental Duties.



System of Government

- Parliamentary System - Introduction, merits & demerits
- Federal System - Introduction, merits & demerits
- Distinction between Indian & British model
- Centre-State and Inter-State Relationship



Topic - 7 & 8 Central Legislature - Parliament

- Concept of Legislature, Executive & Judiciary
- Parliament and its houses
- Election of
 - ↳ Loksabha
 - ↳ Rajyasabha

- Types of Majority
- Presiding officers of Parliament
- Sessions of Parliament



- Devices of Parliamentary Proceedings.
- Joint Sitting
- Legislative Procedures in Parliament- Bills, Budget
- Parliamentary Committees
- Bills in Parliament





Topic - 9

Central Government

- President- Qualification, Election, Oath and Powers.
- Vice President- Qualification, Election, Oath and Powers.
- Comparison of U.S.A & Indian-President & Vice-President
- Prime Minister- Appointment and Powers
- Kind of Ministers- Appointment and Responsibilities
- Cabinet Committees

Topic - 10

Emergency Provisions

- National Emergency
- President's Rule
- Financial Emergency

Amendment of the Constitution

- Basic Structure

Topic - 11

State legislature

- Composition and duration of Houses
- Membership of State legislature
- Presiding Officers of State legislature
- Legislative Procedure in State legislature
- Sessions of the Houses

Topic - 12 & 13

State Government

- Governor-Appointment, Powers and functions
- Chief Minister- Appointment, Powers and functions
- State Council of Ministers- Appointment, Powers and Functions
- Special Status of Jammu and Kashmir

- Special Provisions for Some States

Local Government

- Panchayati Raj- Evolution Types and functioning-73rd Amendment Act-1992
- Municipalities - Evolution, Types and Functioning of Urban

Bodies - 74th Amendment Act- (1992)

Topic - 14

Judicial System of India

Supreme Court

- Judges of Supreme Court
- Organization, Powers, Jurisdiction and Procedures of Supreme Court
- Judicial Review and Judicial activism
- Public Interest litigation

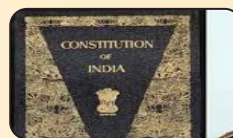
High Courts

- Judges of High Court
- Organisation, Procedure, Jurisdiction and powers of High Court.

- Benches & Jurisdiction

Subordinate Courts

- Lok Adalats
- Family Court
- Gram Nyayalayas



Topic - 15 & 16

Constitutional Bodies

- Election Commission
- Comptroller and Auditor General of India
- Attorney General of India
- Advocate General of the State
- Union Public Service Commission
- State Public Service Commission
- Finance Commission

Non-Constitutional Bodies

- NITI Aayog
- National Human Rights Commission
- Lokpal and Lokayuktas

Topic - 17

- Important Articles
- Schedules in Indian Constitution
- Important Amendments
- Important Court cases

Topic - 18 & 19

Miscellaneous Topic

- Official Language- Union and Regional languages
- Tribunal- Administration and their mandates
- Political Parties- Party System in India, Recognition of National and State Parties
- Electoral Reforms, Anti-Defection law, Representation of the Peoples Act

- Social Justice & Marginalisation
- Pressure Groups





ECONOMICS



Topic - 1

Economics & Economy

- Branches of Economics
 - Microeconomics
 - Macroeconomics
- Interdependence of Micro and Macroeconomics
- Other Branches Of Economics
- Types of Economy
- Sector of Indian Economy

Topic-2

Problems of Economy

- Concept of Production Possibilities
- Concept of Utility



- Marginal Concept
- Types of goods

Cost & Revenue

- Cost Function
- Types of Costs
- Revenue
- Relationship between AR and MR curves

Topic-3 & 4

Demand & Supply

- Demand & Types of Demand
- Law of Demand, Demand curve
- Elasticity of Demand
- Types of Elasticity of Demand



- Measurement of Elasticity of demand
- Supply, Supply Function & Law of Supply

Topic-5

Market Structure & Production Function

- Classification of Markets
- Production Function
- Law of Variable Proportions
- Factors of Production

Topic - 6 & 7

National Income & Inflation

- Meaning of Income,



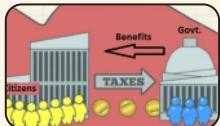
National Income, History of National Income in India

- GDP, GNP & NNP
- Methods of Measuring National Income
- Indicators of Economic Development

Topic-8

Inflation

- Variations on Inflation, Types of Inflation, Causes of Inflation
- Effects of Inflation, Measures to control Inflation
- Calculation of Inflation



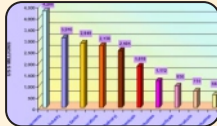
Topic-9

Planning, Unemployment and Poverty in India

- Five Year Plans, Planning Commission, NITI Aayog
- Unemployment, Poverty

Agriculture

- Features of Indian Agriculture
- National Agricultural Policy
- Major Agricultural Programmes & Revolutions
- Land Reforms & Green Revolution
- Minimum Support Price (MSP)



- Marketing & Price Policy

Topic-10 & 11

Fiscal Policy

- Expenditure
- Deficit & Taxes
- Indian Tax Structure- VAT, GST
- Black Money

Topic-12 & 13

Banking in India

- Reserve Bank of India
- Emergence of Nationalised Banks
- Monetary Policy
- NBFC
- Financial Inclusion



Topic - 14

Foreign Trade and Investment in India

- Foreign Exchange Reserves
- India's Foreign Trade
- Balance of Payments

Industry and Infrastructure

- Acts & Regulations
- Micro, Small and Medium Enterprises
- Major Industries



Topic - 15

Economic Reforms in India

- Liberalisation
- Privatisation
- Globalisation

Inclusive Growth

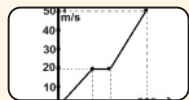


The study of Indian economics is the study of the spinning wheel.- Mahatma Gandhi



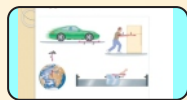
SCIENCE

Physics



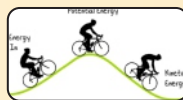
Topic - 1 & 2

- Physical World
- Unit and Dimension
- Motion in Straight line and in Plane



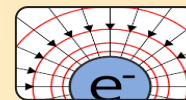
Topic - 3

- Laws of Motion, Work Energy and Power, System of Particles, Rotational Motion, Gravitation.



Topic - 4

- Mechanical Properties of Solids, Liquids & Gases.
- Thermal properties of Matter.
- Thermodynamics, Kinetic Theory



Topic - 5 & 6

- Oscillations and Waves
- Electric Charges and Fields
- Electrostatics and Current Electricity

Topic - 7

- Magnetism in Matter.
- Electromagnetic Induction, Alternating Current, Electromagnetic Waves

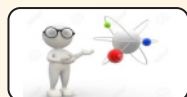
Topic - 8 & 9

- Ray Optics (Reflection, Refraction etc), Wave Optics

Topic - 10

- Dual Nature of Matter, Atoms, Nuclei, Semiconductor Electronics, Communication System

Chemistry



Topic - 1

- Basic concepts of Chemistry
- Structure of atom
- Classification and periodicity

Topic - 2

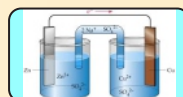
- Chemical Bonding and Structure



- States of matter
- Acid, Base and Salts

Topic - 3

- Types of Reactions
- Hydrogen
- S & P-block elements
- Metallurgy, Alloys



Topic - 4

- Basic Organic Chemistry, Hydrocarbons
- Carbon and its Compounds
- Environmental Chemistry

Topic - 5

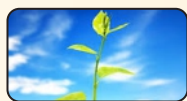
- Radioactivity, Solution
- Electrochemistry



Topic - 6

- Haloalkanes and Haloarenes, Alcohol, Ether, Phenols.
- Biomolecules, Polymers & Fuels
- Chemistry in everyday life.

Biology



Topic - 1

The living world

- Biological Evolution
- Biodiversity

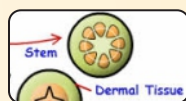
Biological Classification of Plants and Animals

- Monera, Protista, Fungi, Plantae, Animalia

Topic - 2

Plant Kingdom

- Plant Parts and their Functions
- Structural Organization



in Plants

- Transport of Water and Minerals in Plants
- Thallophytes, Bryophytes, Pteridophytes etc.
- Morphology & Anatomy of flowering plants.

Plant Tissues

- Nutrition in Plants
- Photosynthesis-Food Making Process in Plants
- Respiration in Plants



Topic - 3

Classification of Animal Kingdom

- Phylums-Annelida, Mollusca etc.
- Classes- reptilia, mammalia, pisces etc.
- Animal Tissues
- Epithelial Tissue, Connective Tissue, Muscular Tissue etc.

Topic - 4

Cell & Cell Organelle

- Prokaryotic Cells vs.



Eukaryotic Cells

- Cell cycle and Cell division

Biomolecules

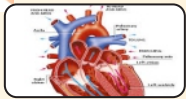
- Vitamins, Fats, Enzymes
- Deficiency Diseases

Topic - 5

Human Digestive System

- Digestion and Absorption
- Digestive Glands
- Body fluids and Circulation





Human Respiratory System

- Respiration
- Mechanism of Breathing
- Exchange of Gases
- Transport of Gases

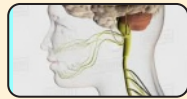
Topic - 6

Circulatory System

- Blood & Blood vessels
- Lymph (Tissue Fluid)
- Cardiac Cycle
- Blood Groups

Endocrine System

- Glands and Hormones
- Pancreas
- Hormones of Hearts, Kidney and Gastrointestinal Tract



- Mechanism of Hormone Action
- Neural Control and Coordination

Topic - 7

Human Nervous System

- Human Brain
- Reflex Action and Reflex Arc

Types of Movements

- Muscular System - Muscle Types
- Skeletal System

Topic - 8

Reproduction

- Reproduction in organism
- Reproduction in plants



- Human Reproduction
- Fertilization, Implantations
- Fertilization Vitro

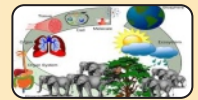
Topic - 9

- Human Excretory System
- Microbes in human welfare

Topic - 10

Acute and Chronic Diseases

- Communicable Diseases
- Diseases caused by Micro-organisms
- Organ-Specific and Tissue Specific Diseases
- Vaccination and



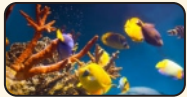
Immunization

- Diseases in Indian Children

Topic - 11

- Biotechnology: Principles and Process
- Biotechnology and its applications

ENVIRONMENT



Topic - 1 Organism and The Environment

- Level of Organization
- Environment, Habitat and Niche
- Ecological Pyramids

Topic - 2 Ecosystem- Structure and Function

- Components, Structure and Functions of Ecosystem
- Energy flow

Food Chain, Food Web

- Ecological Pyramids and Efficiencies
- Terrestrial & Aquatic Ecosystem
- Major Biomes



Biogeo Chemical Cycling or Nutrient Cycling

- Nutrient Cycles Carbon, Nitrogen, Phosphorus & Sulphur Cycle

Topic - 3

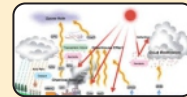
Population, Biotic Community and Succession

- Population
- Ecological Interdependence and Interaction
- Biotic Community Succession

Topic - 4

Biodiversity

- Levels and Magnitude of Biodiversity
- Gradients and Uses of



Biodiversity

- Threats and Conservation to Biodiversity
- Biodiversity hot spots
- IUCN Red List or Red Data List or Red Book
- International efforts for Conserving Biodiversity
- Biodiversity Conservation in India
- Animal & Plant Diversity of India
- Marine Diversity

Topic - 5

Pollution and Global Environmental Change

- Kinds of pollution; Air, Water, Soil and Noise-Sources, types and Effects
- Ozone Depletion, Green House Effect & Smog



- Pollution Mitigation Strategies
- Major Global Environmental Issues – Climate Change, Global Warming etc.
- Environmental Impact Assessment

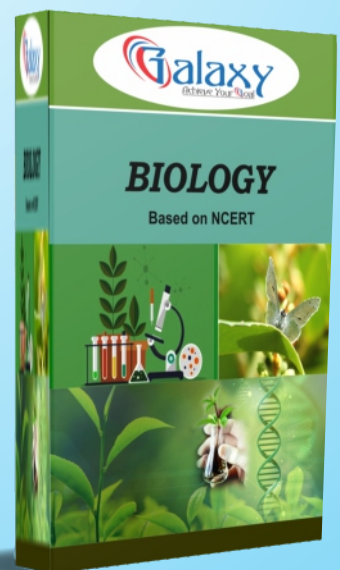
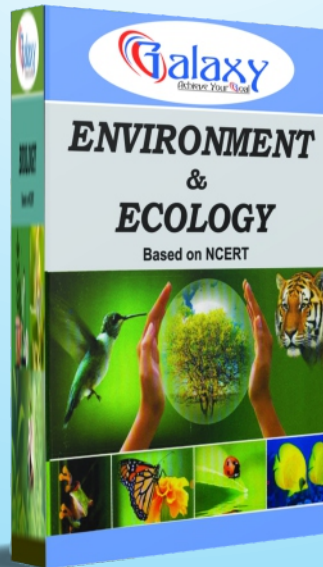
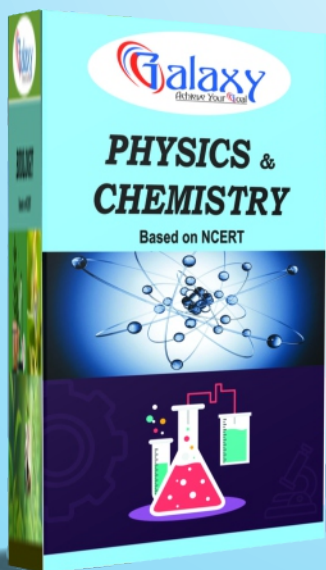
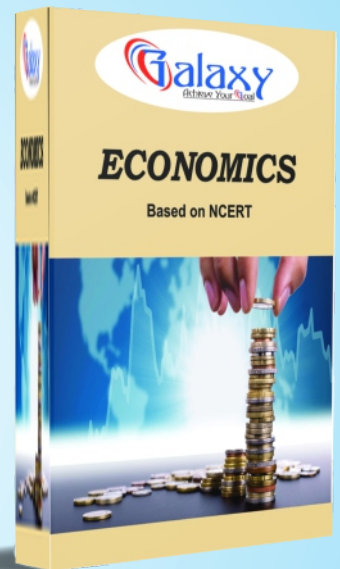
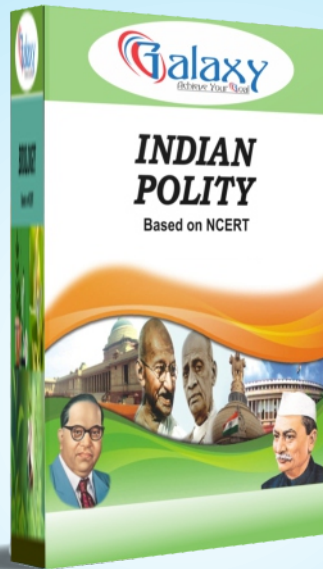
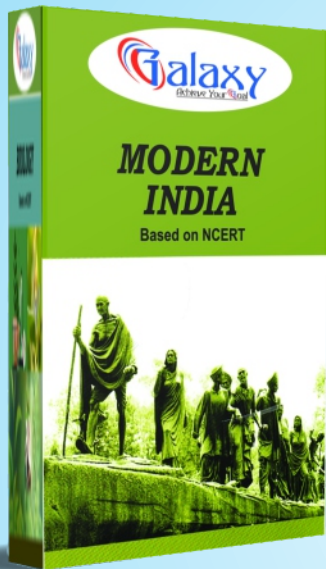
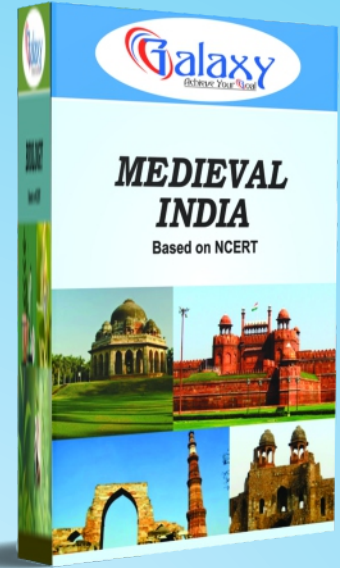
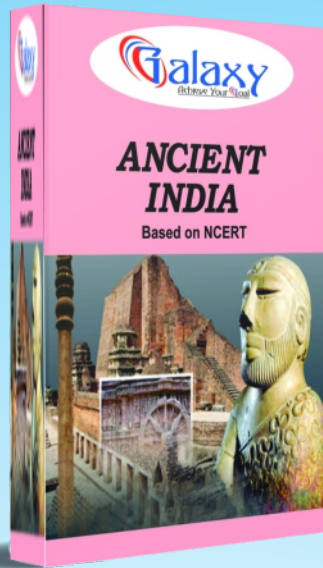
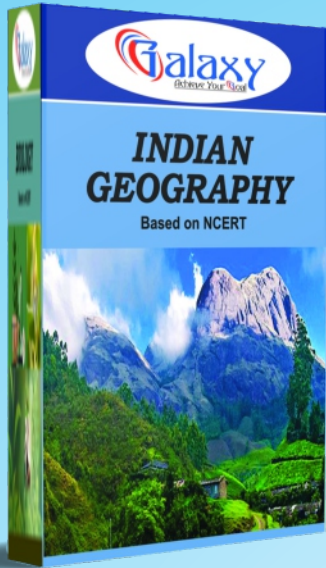
Topic - 6

Acts and policies to protect environment

- Institutions and Measures
- National Wildlife Action Plan
- Environmental Organizations
- Wetland Ecosystem- Ramsar Convention, Ramsar Sites
- International Environmental Conventions



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