



## ANCIENT HISTORY

### LECTURE-1

- Sources of Ancient Indian History
- Pre-historic phases-
  - Stone age (Palaeolithic, Mesolithic and Neolithic)
- Chalcolithic phase (Ahar and Jorwe culture should be discussed in detail)
- **INDUS VALLEY CIVILISATION**
  - Origin and extent
  - Town planning
  - Agriculture
  - Animal domestication
  - Technology and craft
  - Trade and traded articles with other civilizations
  - Political organisation
  - Pottery and terracotta figures
  - Beliefs and faiths
  - Important excavated sites and their findings
  - Decline of IVC

### LECTURE-2

- **VEDIC & LATER VEDIC PERIOD**
  - **Vedic literature**- Vedas, Upanishad, Purana, Brahmanas, Aranyakas and others and concerned themes
  - **Aryans** – advent and their origin, their society and its features such as caste system and status of women in it.
  - Religion and compare changes in Vedic to later Vedic phase
  - Political organisation
  - Pottery
  - Various schools of Indian Philosophy
  - Vedanta and Vedanga.

### TEST- 1

CODE- AH01

### LECTURE-3

- **JAINISM AND BUDDHISM**
  - Reasons to rise these religions
  - Their founders and their life events
  - Core ideals of both religions- such as, middle path, triratnas etc.
  - Followers and patronage
  - Literature – Tripitakas and Angama and other sources
  - Sects- Hinayana, Mahayana and Svetambara and Digambara, other smaller sects
  - Similarities and differences between these religions
  - Reasons to decline

### TEST- 2

CODE- AH02



<b>LECTURE-4</b>	<ul style="list-style-type: none"><li>• <b>Mahajanpadas and their extent</b></li><li>• Alexander invasion</li><li>• Reasons for the rise of Magadha empire</li><li>• <b>Mauryan Age</b><ul style="list-style-type: none"><li>➤ Chandragupta Maurya</li><li>➤ Ashoka – dhamma and pillars</li><li>➤ Mauryan administration and economy</li><li>➤ Literature- Arthshastra and Mudraraksha and saptang theory</li><li>➤ Reasons to decline Mauryan empire</li></ul></li></ul>
<b>LECTURE-5</b>	<ul style="list-style-type: none"><li>• <b>Post mauryan period-</b><ul style="list-style-type: none"><li>➤ Indo-Greeks, Shakas, Parthians, Kushanas, and society under them</li><li>➤ Kanishka- should be discussed in detail</li><li>➤ Gandhara and Mathura school of art</li><li>➤ Satvahanas of Deccan and society under them</li><li>➤ Chola, Chera and Pandya</li><li>➤ Beginnings of Brahmanism and Sangam literature</li></ul></li></ul>
<b>TEST- 3</b>	<b>CODE- AH03</b>
<b>LECTURE-6</b>	<ul style="list-style-type: none"><li>• <b>Gupta Empire-</b><ul style="list-style-type: none"><li>➤ Chandragupta-1,</li><li>➤ Samundragupta and his policies and PrayagPrashasti</li><li>➤ Chandragupta-II</li><li>➤ Administration , trade and economy and social development under Gupta rulers</li><li>➤ Art and culture, science and technology and golden age</li><li>➤ Fall of empire</li></ul></li></ul>
<b>LECTURE-7</b>	<ul style="list-style-type: none"><li>• <b>Post Gupta Era</b><ul style="list-style-type: none"><li>➤ Harsha</li><li>➤ Vakatakas&amp;Chalukyas of Badami</li><li>➤ Pallavas</li><li>➤ Other developments in south India</li></ul></li></ul>
<b>TEST- 4</b>	<b>CODE- AH04</b>
<b>MEDIEVAL INDIAN HISTORY</b>	
<b>LECTURE-8</b>	<ul style="list-style-type: none"><li>• Ancient to medieval transition phase</li><li>• The Palas,</li><li>• The Gurjara-Pratiharas</li><li>• Rashtrakutas and tripartite struggle</li><li>• administration, economy and society under Palas, Pratihara and Rashtrakutas</li><li>• Chola Empire<ul style="list-style-type: none"><li>➤ Rajaraja and Rajendra I (discussed in detail)</li><li>➤ Architecture , society and military strength</li><li>➤ Local government and</li></ul></li><li>• Mahmud of Ghazni</li><li>• Muhammad Ghori</li></ul>



<b>LECTURE-9 &amp; 10</b>	<ul style="list-style-type: none"><li>• <b>THE DELHI SULTANAT</b><ul style="list-style-type: none"><li>➤ <b>Slave Dynasty</b>- QutbuddinAibak, Iltutmish, Raziya, Balban and major developments during slave dynasty</li><li>➤ <b>The Khalji Dynasty</b>- AlauddinKhalji (reforms and military Campaigns)</li><li>➤ <b>The Tughlaq Dynasty</b>- GhiyasuddinTughlaq<ul style="list-style-type: none"><li>✓ Muhammad bin Tughlaq's Experiments</li><li>✓ Firoz Shah Tughlaq and Important Features of Firoz Shah's Reign</li></ul></li><li>➤ <b>Sayyid Dynasty</b></li><li>➤ <b>Lodi Dynasty</b></li><li>➤ Government, and economic and Social life under the Delhi sultanat</li></ul></li></ul>
<b>TEST- 5</b>	<b>CODE- MH01</b>
<b>LECTURE-11</b>	<ul style="list-style-type: none"><li>• THE AGE OF VIJAYANAGAR AND BAHMANI KINGDOM<ul style="list-style-type: none"><li>➤ Krishna Deva Raya- administration, economy, society and architecture of vijaynagar</li><li>➤ Mahmud Gawan</li><li>➤ The Advent of the Portuguese</li><li>➤ Mahmud Begarha</li></ul></li><li>• Malwa and Mewar</li><li>• RanaKumbha</li><li>• ZainulAbidin</li><li>• The Sufi Movement- famous silisila's such as chisti and suharnwardi</li><li>• Bhakti Movement- Sankara, Ramanuja, Madhava, Surdas, Mirabai, Tulsidas, Chaitanya, Ramananda, Kabir ,</li><li>• Guru nanak and sikkhism</li><li>• The Vaishnavite Movement</li></ul>
<b>TEST- 6</b>	<b>CODE- MH02</b>





<b>LECTURE-12 &amp; 13</b>	<ul style="list-style-type: none"><li>• <b>MUGHAL EMPIRE</b><ul style="list-style-type: none"><li>➤ Babur - The Battle of Panipat I, The Battle of Khanwaetc</li><li>➤ Humayun's Conquest of Gujarat and his Tussle with Sher Shah</li><li>➤ Sher Shah Suri and his countributions</li><li>➤ AKBAR-<ul style="list-style-type: none"><li>✓ Battle of Panipat II</li><li>✓ Land Revenue Administration- Zabti or Bandobast system. Dahsala System</li><li>✓ Mansabdari System</li><li>✓ Rajput policy</li><li>✓ Din-i-Ilahi and religious policy</li><li>✓ Mughal Advance towards the Deccan - factors which impelled Akbar to involve himself in the Deccani affairs.</li></ul></li><li>➤ Jahangir- Nurjahan and her influence</li><li>➤ Shah jahan- architecture and painting development</li></ul></li><li>• Economic and social life under the Mughals</li><li>• Cultural and religious developments</li><li>• Disintegration Of The Mughal Empire<ul style="list-style-type: none"><li>➤ Aurangzeb's Reign, Aurangzeb's Religious Policy</li><li>➤ Aurangzeb and the Deccani States</li><li>➤ Rise of Malik Ambar</li><li>➤ Popular Revolts and Movements for Regional Independence: Jats, Satnamis, Afghans and Sikhs</li><li>➤ Cultural Contribution of the Deccan States- Ali Adil Shah, Ibrahim Adil Shah II, Muhammad QuliQutb Shah</li><li>➤ Shivaji</li><li>➤ Shivaji's Administration</li></ul></li></ul>
<b>TEST- 7</b>	<b>CODE- MH03</b>
<b>MODERN INDIAN HISTORY</b>	
<b>LECTURE-14</b>	<ul style="list-style-type: none"><li>• <b>British Conquest of India</b><ul style="list-style-type: none"><li>➤ Decline of Mughal empire</li><li>➤ Rise of regional politics</li><li>➤ India in Eighteenth Century</li><li>➤ Advent of Europeans</li><li>➤ Factors that led to conquest of India by British</li><li>➤ Conquest of regional powers</li><li>➤ Resistance of Indian powers and causes of failure</li><li>➤ Evolution of British paramountcy over princely states</li></ul></li></ul>
<b>LECTURE-15</b>	<ul style="list-style-type: none"><li>• <b>British Administration</b><ul style="list-style-type: none"><li>➤ British colonialism in India</li><li>➤ British policies in India</li><li>➤ British Economic Policies and their impact</li><li>➤ Rise of capitalist class</li><li>➤ Activities of Christian Missionaries</li><li>➤ Governors- Generals and administration till 1857</li><li>➤ Colonial administration till 1857</li></ul></li></ul>



<b>LECTURE-16</b>	<ul style="list-style-type: none"><li>• <b>Early Resistance to British Rule</b><ul style="list-style-type: none"><li>➤ Tribal revolts</li><li>➤ Various tribal movements in India</li><li>➤ Civil rebellions and peasant revolts</li><li>➤ Nature and significance of civil rebellions</li><li>➤ Various peasant movements in India The revolt of 1857 and personalities associated</li></ul></li></ul>
<b>LECTURE-17</b>	<ul style="list-style-type: none"><li>• <b>Social Reforms in British India</b><ul style="list-style-type: none"><li>➤ Regeneration, reform and renaissance in India</li><li>➤ Social reformers in India</li><li>➤ Reforms in western India</li><li>➤ Reforms in south India</li><li>➤ Role of reformers</li><li>➤ Nature and limitation of 19th century renaissance</li><li>➤ Reasons of rise</li><li>➤ Caste movement in south India</li><li>➤ Caste movements in northern and eastern India</li></ul></li></ul>
<b>TEST- 8</b>	<b>CODE- MI01</b>
<b>LECTURE-18</b>	<ul style="list-style-type: none"><li>• <b>Nationalism in India</b><ul style="list-style-type: none"><li>➤ Rise of nationalism in India</li><li>➤ Social basis of Indian Nationalism</li><li>➤ Rise and growth of Indian National Congress</li><li>➤ Policies and programmes of early nationalists</li><li>➤ Role of literature and news-media in freedom struggle</li><li>➤ Intensification of nationalist movement</li><li>➤ Home Rule League</li><li>➤ Militants and Revolutionaries</li><li>➤ Gadgar movement</li></ul></li></ul>
<b>LECTURE-1920, 21 &amp; 22</b>	<ul style="list-style-type: none"><li>• <b>Indian Freedom Struggle Under Gandhi</b><ul style="list-style-type: none"><li>➤ Gandhi in South Africa</li><li>➤ Non- cooperation Movement</li><li>➤ Civil Disobedience Movement</li><li>➤ Round Table Conference</li><li>➤ Poona Pact</li><li>➤ 1939 Tripuri Session</li><li>➤ August Offer</li><li>➤ Individual Satyagraha 1940-41</li><li>➤ Quit India Movement</li><li>➤ British Official response to national movement</li></ul></li></ul>
<b>TEST- 9, 10 &amp; 11</b>	<b>CODE- MI02, MI03 &amp; MI04</b>
<b>LECTURE-23</b>	<ul style="list-style-type: none"><li>• <b>Struggle by the Masses Trade union movement in India</b><ul style="list-style-type: none"><li>➤ Peasant movements in modern India</li><li>➤ The states people's movements</li><li>➤ Socialists and left bloc in congress</li><li>➤ Indian National Army</li><li>➤ Naval mutiny of 1946</li></ul></li></ul>



**LECTURE-24**

- **Partition of India**
  - Rise and growth of communalism
  - Partition of India and attainment of freedom
  - Wavell Plan
  - Cabinet Mission Plan
  - Mountbatten Plan

**TEST- 12**

**CODE- MI05**

**WORLD HISTORY**

**LECTURE-25**

- **Industrial Revolution**
  - Decline of feudalism
  - Beginning of Renaissance
  - Pre-industrial Europe
  - Agricultural Revolution
  - Factors that led to industrial revolution
  - Impact of industrial revolution
- **French Revolution**
  - Causes
  - The revolution in France
  - France under Napoleon
  - Impact of Revolution
  - Significance of Revolution
- **Emergence of USA**
  - Foundation of American Colonies
  - The Independence of United States of America
  - The American Revolutionary War
  - What was the impact of American Revolution?
  - Political Effects of the Revolution
  - How did the American Revolution influence the French Revolution?
  - US Civil War
  - Impact of Civil War on USA
  - Global Impact of US Civil War
  - Impact on India
- Nationalism in Europe
  - Rise of the nation- state system
  - Unification of Italy
  - Unification of Germany
- Colonialism and Imperialism
  - Colonialism
  - The age of Imperialism (1870-1914)
  - Imperialism in Asia
  - Analysis of Colonialism



<b>LECTURE-26</b>	<ul style="list-style-type: none"><li>• <b>World War-I</b><ul style="list-style-type: none"><li>➤ Major causes of the war</li><li>➤ Course of the war</li><li>➤ Analysis of major events of the war</li><li>➤ Consequences of World War I</li><li>➤ Aftermath of World War I</li><li>➤ League of Nations</li></ul></li><li>• <b>Russian Revolution</b><ul style="list-style-type: none"><li>➤ Major events in pre-revolution Russia</li><li>➤ Causes</li><li>➤ Course of Revolution</li><li>➤ Consequences</li><li>➤ Aftermath of the war</li><li>➤ Post-Lenin Russia</li></ul></li><li>• Inter-War Years (1919 To 1939)<ul style="list-style-type: none"><li>➤ The Great Depression</li><li>➤ The Great Depression- an economic perspective</li><li>➤ Rise of Fascism in Italy</li><li>➤ Rise of Nazism in Germany</li><li>➤ Soviet Union (USSR)</li></ul></li><li>• World War- II<ul style="list-style-type: none"><li>➤ Foundations of the war</li><li>➤ Course of the war</li><li>➤ Aftermath of war</li><li>➤ Analysis of the war</li><li>➤ Decolonization phase</li></ul></li></ul>
<b>TEST- 13</b>	<b>CODE- WH01</b>
<b>ART &amp; CULTURE</b>	
<b>LECTURE-27</b>	<ul style="list-style-type: none"><li>• Palaeolithic art (cave Architecture)</li><li>• Art &amp; culture during Indus Valley civilization</li><li>• Religion and Indian philosophy</li><li>• Architecture and sculpture Since Mauryan age</li></ul>
<b>LECTURE-28</b>	<ul style="list-style-type: none"><li>• Drama/theatre</li><li>• Puppet forms of India</li><li>• Indian pottery</li></ul>
<b>TEST- 14</b>	<b>CODE- AC01</b>
<b>LECTURE-29</b>	<ul style="list-style-type: none"><li>• Indian paintings</li><li>• Classical forms of dance &amp; Folk dance forms</li><li>• Classical music &amp; Musical instruments</li></ul>
<b>LECTURE-30</b>	<ul style="list-style-type: none"><li>• Indian literature</li><li>• Government institutions related to art and culture</li><li>• Culture and social change</li><li>• UNESCO sites and GI tags</li></ul>
<b>TEST- 15</b>	<b>CODE- AC02</b>



## PHYSICAL GEOGRAPHY

### LECTURE -1

- The Universe & its formation theories.
- The Solar System
- Latitude & Important latitudes (from North to South)
- Longitude
- Standard Time and Greenwich Mean Time & International Date Line
- Motions of the Earth and their effects
- Solstice & Equinox





**LECTURE  
-2 & 3**

- DOMAINS OF THE EARTH-hydrosphere, lithosphere, atmosphere & biosphere
- Continents and Ocean basins
- Sources of Information Of the Earth's Interior
- Division of Earth's Interior- The Crust, The Mantle & The Core
- Earthquake
  - Measurement of earthquake
  - Earthquake waves-Body Waves & Surface Waves
  - Shadow Zones
  - Types of earthquakes
- Volcanoes
  - Major types of Volcanoes
  - Intrusive Volcanic Landforms
- Minerals
- Rocks and its types
  - Igneous Rocks
  - Sedimentary Rocks
  - Metamorphic Rocks
  - Rock Cycle

**TEST- 1**

**CODE- PHG01**

**LECTURE  
-4**

- Continental Drift Theory & Evidence supporting Continental Drift Theory
- Forces for continental drift
- Convectional current theory
- Abyssal Plains
- Distribution of Volcanoes and Earthquakes
- Concept of sea floor spreading
- Plate Tectonics
- Movement Of Indian Plate
- Evolution Of Landforms
- Earth Movements
- Endogenic Forces
- Exogenic Forces
- Landforms created by the action of Running Water & the action of Groundwater
- Landforms created by the action of Glacier
- Landforms created by the action of Wind
- Mountains and types of Mountains
- Plateau & Plains



<b>LECTURE -5</b>	<ul style="list-style-type: none"><li>• Atmosphere &amp; its Composition</li><li>• Structure of the Atmosphere-Troposphere, Stratosphere, Mesosphere, Thermosphere &amp; Exosphere</li><li>• Solar Radiation<ul style="list-style-type: none"><li>➤ Factors influencing Insolation on Earth</li><li>➤ Spatial Distribution of Insolation at the Earth's Surface</li><li>➤ Heating and Cooling of Atmosphere<ul style="list-style-type: none"><li>✓ Conduction</li><li>✓ Convection</li><li>✓ Advection</li></ul></li></ul></li><li>• Terrestrial radiation</li><li>• Heat Budget and Energy Balance</li><li>• Factors affecting Temperature Distribution</li></ul>
<b>TEST- 2                      CODE- PHG02</b>	
<b>LECTURE -6</b>	<ul style="list-style-type: none"><li>• Atmospheric Pressure</li><li>• Vertical variation of Pressure &amp; Horizontal distribution of Pressure</li><li>• Global Pressure Belts</li><li>• Factors affecting the velocity and direction of the wind</li><li>• Pressure Gradient Force</li><li>• Frictional Force &amp; Coriolis Force</li><li>• Pressure and Wind</li><li>• General circulation of the atmosphere</li><li>• Movement of the planetary winds</li><li>• Seasonal Wind &amp; Local Winds</li><li>• Air Masses</li><li>• Fronts- Cold Front and Warm Front</li><li>• Cyclones -Tropical Cyclones, Extra Tropical Cyclone &amp; Thunderstorms and Tornadoes</li></ul>
<b>LECTURE -7</b>	<ul style="list-style-type: none"><li>• Humidity- absolute humidity &amp; relative humidity</li><li>• Evaporation and Condensation</li><li>• Clouds and their type</li><li>• Precipitation and its type</li><li>• Types of rainfall</li><li>• World Distribution of Rainfall</li></ul>
<b>TEST- 3                      CODE- PHG03</b>	



<b>LECTURE -8</b>	<ul style="list-style-type: none"><li>• Hydrological Cycle</li><li>• Relief of the Ocean Floor- The Continental Shelf , The Continental Slope, The Deep Sea Plain &amp; The Oceanic Deeps or Trenches</li><li>• Minor Relief Features<ul style="list-style-type: none"><li>➤ Mid-Oceanic Ridges</li><li>➤ Seamount , Submarine Canyons , Guyots</li><li>➤ Atoll</li></ul></li><li>• Horizontal and Vertical Distribution of Temperature</li><li>• Salinity of Ocean Waters &amp; Factors affecting ocean salinity<ul style="list-style-type: none"><li>➤ Waves</li><li>➤ Tides &amp; Types of Tides</li></ul></li><li>• Ocean Currents &amp; Types of Ocean Currents</li><li>• Forces effect Ocean currents Primary forces(setting issue) &amp; Secondary forces</li></ul>
<b>LECTURE -9 &amp; 10</b>	<ul style="list-style-type: none"><li>• Classification of climate<ul style="list-style-type: none"><li>➤ Koppen's Scheme of classification</li><li>➤ Climate change</li><li>➤ Global Warming</li><li>➤ Greenhouse Gases (GHGs)</li></ul></li><li>• Natural vegetation<ul style="list-style-type: none"><li>➤ Factors affecting natural vegetation</li></ul></li><li>• Types of Natural Vegetation</li><li>• Types of Forests<ul style="list-style-type: none"><li>➤ Tropical Evergreen Forests</li><li>➤ Tropical Deciduous Forests</li><li>➤ Temperate Evergreen Forests</li><li>➤ Temperate Deciduous Forests</li><li>➤ Mediterranean Vegetation</li><li>➤ Coniferous Forests</li></ul></li><li>• Type of Grasslands<ul style="list-style-type: none"><li>➤ Thorny bushes</li><li>➤ Tundra</li></ul></li></ul>
<b>TEST- 4                      CODE- PHG04</b>	
<b>INDIAN GEOGRAPHY</b>	
<b>LECTURE -11</b>	<ul style="list-style-type: none"><li>• LOCATION</li><li>• SIZE</li><li>• INDIA AND THE WORLD</li><li>• INDIA'S NEIGHBOURS</li></ul>



<b>LECTURE -12&amp; 13</b>	<ul style="list-style-type: none"><li>• Geological divisions.<ul style="list-style-type: none"><li>➤ The Himalayas and other Peninsular Mountains</li><li>➤ Indo-Ganga-Brahmaputra Plain</li></ul></li><li>• Physiography<ul style="list-style-type: none"><li>➤ The Northern Plain</li><li>➤ The Peninsular Plateau<ul style="list-style-type: none"><li>✓ The Deccan Plateau</li><li>✓ Western Ghat</li><li>✓ Eastern Ghat</li><li>✓ The Central Highlands</li></ul></li><li>➤ The Indian Desert</li><li>➤ The Coastal Plains</li><li>➤ The Islands</li></ul></li></ul>
<b>LECTURE -14</b>	<ul style="list-style-type: none"><li>• Drainage system &amp; Important Drainage Patterns</li><li>• Indian drainage System and its Classification</li><li>• Evolution of the Himalayan Drainage</li><li>• The River Systems of the Himalayan Drainage<ul style="list-style-type: none"><li>➤ The Indus River System</li><li>➤ The Ganga River System</li><li>➤ The Brahmaputra River System</li></ul></li><li>• The Peninsular Drainage System<ul style="list-style-type: none"><li>➤ Evolution of Peninsular Drainage System</li><li>➤ River Systems of the Peninsular Drainage<ul style="list-style-type: none"><li>✓ East Flowing River</li><li>✓ West-Flowing Rivers</li></ul></li></ul></li><li>• Comparison between Himalayan and Peninsular Rivers</li></ul>
<b>TEST- 5                      CODE- ING01</b>	
<b>LECTURE -15</b>	<ul style="list-style-type: none"><li>• Climate &amp; Weather</li><li>• Factors influencing the climate of India including impact of Monsoon Winds , Westerly Jet stream , Easterly Jet , Western Disturbances and Tropical Cyclones , El - Nino Effect Southern Oscillation &amp; Role of ITCZ etc.</li><li>• Concept Of Monsoon</li><li>• Cycle of Seasons in India<ul style="list-style-type: none"><li>➤ The cold weather season</li><li>➤ The Hot Weather Season</li><li>➤ The advancing monsoon season</li><li>➤ Retreating / Post Monsoon (The Transition Season)</li><li>➤ Distribution Of Rainfall</li></ul></li></ul>
<b>LECTURE -16</b>	<ul style="list-style-type: none"><li>• Soil &amp; Components of soil</li><li>• Classification of Soil- Alluvial soil, Black soil, Red and Yellow soils, Laterite soil, Arid soil, Saline soil, Peaty soil &amp; Forest soil</li><li>• Soil Degradation<ul style="list-style-type: none"><li>➤ Soil Erosion -Causes , Factors affecting &amp; impact</li><li>➤ Soil conservation methods</li></ul></li></ul>

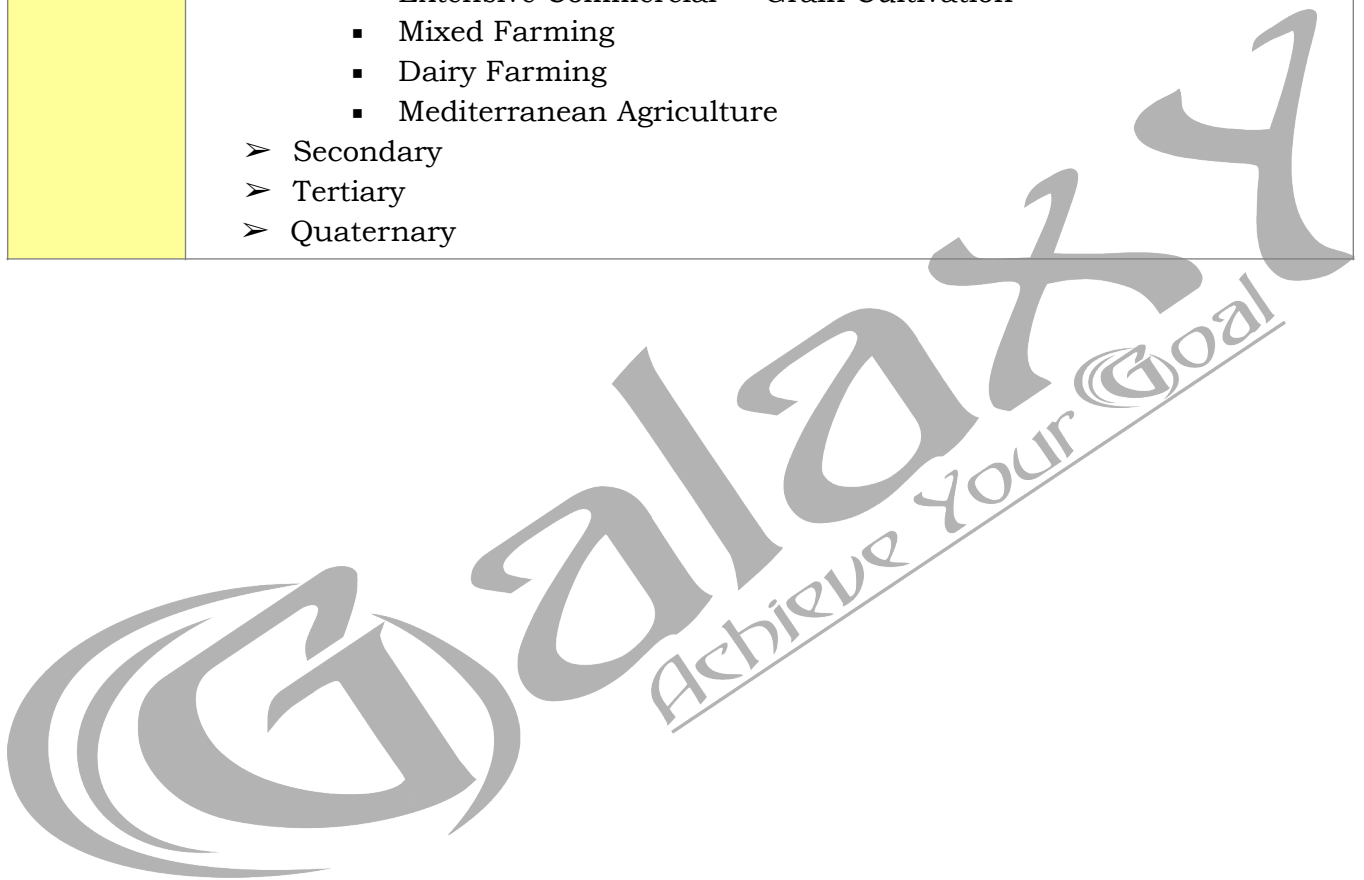


<b>LECTURE -17</b>	<ul style="list-style-type: none"><li>• Natural Vegetation</li><li>• Major factors influence Natural Vegetation</li><li>• Indian Forests<ul style="list-style-type: none"><li>➤ Tropical Evergreen and Semi-Evergreen Forests</li><li>➤ Tropical Evergreen Forests</li><li>➤ Semi Evergreen Forests</li><li>➤ Tropical Deciduous Forests</li><li>➤ Moist Deciduous Forests</li><li>➤ Dry Deciduous Forests</li><li>➤ Tropical Thorn Forests</li><li>➤ Montane Forests</li><li>➤ The Southern Mountain Forests</li><li>➤ Littoral and Swamp Forests</li></ul></li><li>• Forest Conservation in India</li><li>• Forest cover in India<ul style="list-style-type: none"><li>➤ The National Forest Policy</li></ul></li><li>• Social Forestry<ul style="list-style-type: none"><li>➤ Urban Forestry</li><li>➤ Rural Forestry<ul style="list-style-type: none"><li>✓ Agro-forestry</li><li>✓ Community Forestry</li></ul></li><li>➤ Farm Forestry</li></ul></li><li>• Wild Life and Wild Life Conservation in India<ul style="list-style-type: none"><li>➤ Biosphere Reserve</li></ul></li><li>• Disaster Management</li><li>• Disaster &amp; Classification of Disaster</li><li>• Earthquakes<ul style="list-style-type: none"><li>➤ Earthquake Hazard Zones in India</li><li>➤ Effects of Earthquakes</li><li>➤ Earthquake Hazard Mitigation</li></ul></li><li>• Tsunami</li><li>• Tropical cyclone<ul style="list-style-type: none"><li>➤ Consequences of Tropical Cyclones</li></ul></li><li>• Floods- Consequences and Control of floods</li><li>• Droughts- Types of Droughts , Consequences and Mitigation</li><li>• Landslides<ul style="list-style-type: none"><li>➤ Disaster Management</li></ul></li></ul>
<b>TEST- 6                      CODE- ING02</b>	
<b>HUMAN GEOGRAPHY</b>	
<b>LECTURE - 18</b>	<ul style="list-style-type: none"><li>• Nature of Human Geography<ul style="list-style-type: none"><li>➤ Environmental Determinism</li></ul></li><li>• Fields and Sub-fields of Human Geography<ul style="list-style-type: none"><li>➤ Social Geography</li><li>➤ Urban Geography</li><li>➤ Political Geography</li><li>➤ Population Geography</li><li>➤ Settlement Geography</li><li>➤ Economic Geography</li></ul></li></ul>



**LECTURE  
-19**

- Human Development
- Difference between Growth & Development
- Approaches to Human Development
- Measuring Human Development – Human Development Index
- Human Activities
- Classification of Human Activities
  - Primary
    - ✓ Types of agricultural systems
      - Subsistence Agriculture
      - Plantation Agriculture
      - Extensive Commercial Grain Cultivation
      - Mixed Farming
      - Dairy Farming
      - Mediterranean Agriculture
  - Secondary
  - Tertiary
  - Quaternary





**LECTURE  
-20**

- Transport and Communication
- Transport
- Modes of Transportation
- **Land Transport**
  - Road Transport- Major highways of the world, Road Transport Of India & Classification Of Road Transport
  - Importance of Road Transport vis-à-vis rail transport
  - Railways-Trans-continental Railways,Trans-Siberian Railways, Trans-Canadian Railways etc
  - Railways in India
    - ✓ Three categories Indian Railways
      - Broad gauge
      - Metre gauge
      - Narrow gauge
- Water Transport
  - Sea Routes- Important Sea Routes of the world
  - Inland Waterways of World & India
  - Important Inland waterways of the world
  - National Waterways
    - ✓ Coastal Shipping
      - The Suez Canal
      - The Panama Canal
  - Important Ports of India
  - Important Projects such as Sagarmala Project, SetuBharatam project &Bharatmala Project
- **Air Transport**
  - Inter-continental Air Routes
  - Major Airports in India
- **Pipelines**
  - Important networks of pipeline of India
- **Communications (World & India)**
  - mode of communication
    - ✓ Satellite Communication
    - ✓ Cyber Space – Internet
- International Trade

**TEST- 7**

**CODE- HG01**



<b>LECTURE -21</b>	<ul style="list-style-type: none"><li>• <b>Land Resources And Agriculture</b><ul style="list-style-type: none"><li>➤ Land Use and the land-use categories</li><li>➤ Agricultural Land Uses in India</li><li>➤ Cropping Seasons in India</li><li>➤ Types of farming<ul style="list-style-type: none"><li>✓ Irrigated</li><li>✓ Rainfed</li></ul></li><li>➤ Foodgrains</li><li>➤ Cereals-Rice &amp;Wheat</li><li>➤ Coarse Cereals- Jowar, Bajra &amp; Maize</li><li>➤ Pulses- Gram, Tur (Arhar )</li><li>➤ Oilseeds</li><li>➤ Fibre Crops- Cotton &amp; Jute</li><li>➤ Other Crops- Sugarcane, Tea &amp; Coffee</li><li>➤ Agricultural Development in India and Strategy</li><li>➤ Problems of Indian Agriculture</li></ul></li><li>• <b>Water Resources</b><ul style="list-style-type: none"><li>➤ Types of Water Resources-Surface Water Resources, Groundwater Resources &amp; Lagoons and Backwaters</li><li>➤ Irrigation</li><li>➤ Generation of electricity</li><li>➤ Emerging Water Problems</li><li>➤ Deterioration of Water Quality</li><li>➤ Water Conservation and Management</li><li>➤ Prevention of water pollution</li><li>➤ Recycle and Reuse of water</li><li>➤ Watershed Management</li><li>➤ Rainwater Harvesting</li></ul></li></ul>
<b>LECTURE -22</b>	<ul style="list-style-type: none"><li>• <b>Mineral And Energy Resources</b><ul style="list-style-type: none"><li>➤ Minerals &amp; Classification of minerals</li><li>➤ Distribution of Minerals in India</li><li>➤ Important minerals found in India their distribution</li><li>➤ Ferrous Minerals-Iron Ore &amp; Manganese</li><li>➤ Non-ferrous minerals- Bauxite- Copper</li><li>➤ Non-Metallic Minerals- Mica</li><li>➤ Rock Minerals- Limestone</li></ul></li><li>• <b>Energy Resources</b><ul style="list-style-type: none"><li>➤ Classified of Energy Resources</li><li>➤ Conventional- Coal, Petroleum &amp; Natural Gas</li><li>➤ Non-conventional sources- Nuclear/Atomic Energy sources, Solar Energy, Wind Energy, Tidal and Wave Energy, Geothermal Energy &amp; Bio-energy</li><li>➤ Conservation of Mineral Resources</li></ul></li></ul>





**LECTURE  
-23**

- International Trade
- Basis of International Trade
  - Difference in National Resources
  - Population and cultural factors
  - Stage of economic development
  - Extent of foreign investment
  - Transport
- Balance of Trade and Balance of Payments
- World Trade Organisation
- Regional Trade Blocs
- Manufacturing Industries
  - Classification of Manufacturing Industries
  - Importance of manufacturing industries
  - Location of industries
  - factors influence the location of industries
- Industrial Policy
- Major Industries
  - Iron and Steel Industry
  - Cotton Textile Industry
  - Sugar Industry
  - Petrochemical Industries
  - Knowledge based industries
- Liberalisation, Privatisation, Globalisation (LPG) and Industrial Development in India
- Industrial Regions in India
- Industrial Districts

**TEST- 8**

**CODE- HG02**

**LECTURE  
-24**

- **World Population- World & India**
  - Population Distribution
  - Factors affecting Population
  - Density of population
  - Population Growth-World & India
    - ✓ Four distinct phases of growth of population in India
- Components of Population Change
- Demographic Transition
- Adolescent
- Population Composition
  - population pyramids
  - Rural Urban Composition
  - Literacy
  - Composition of Working Population
  - Population Control Measures



**LECTURE  
-25**

- Human Settlements -World & India
  - Temporary Settlements
  - Permanent Settlements
  - Classification of Settlements
- Factors affecting the location of rural settlements
- Patterns of rural settlements
- Rural settlements in India
- Types
  - Clustered Settlement
  - Semi-Clustered Settlements
  - Hamleted Settlements
  - Dispersed Settlements
- Problems of Rural Settlements
- Urban Settlements
  - classification of urban settlements
- Types of Urban Settlements
  - Town
    - ✓ Classification of Towns
      - Administrative towns
      - Trading and Commercial Towns
      - Cultural Towns
  - City
  - Conurbation
  - Megapolis/Megacity
  - Million City
- Evolution of Towns in India
- Problems of Urban Settlements
- Human Development in India
- Indicators of HDI
- Social problems like crimes, terrorism, and war and political factors

**TEST- 9**

**CODE- HG03**

**GS NCERT SESSION PLAN**

**S. No.**

**Polity**



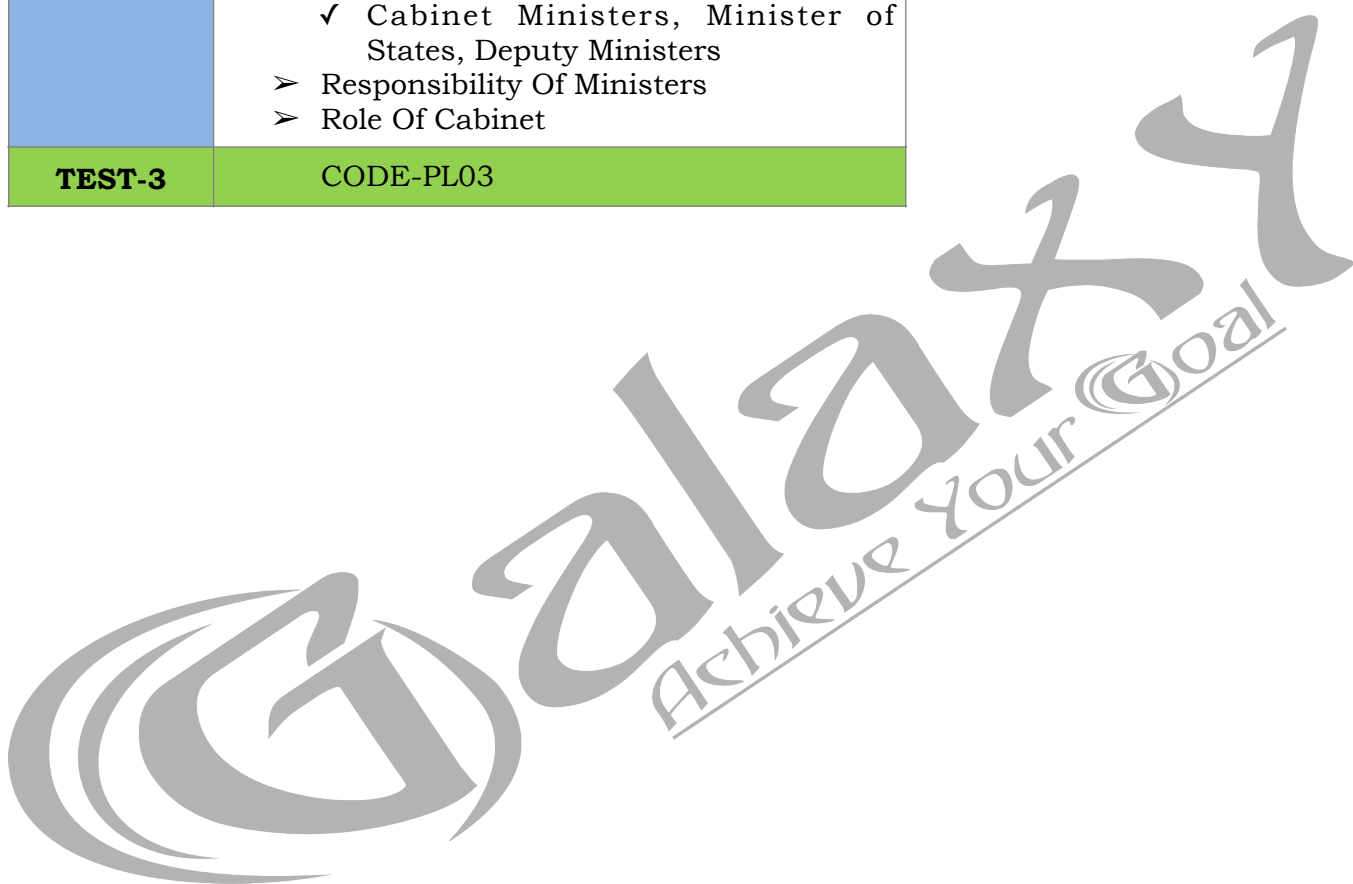
<b>Lecture - 1</b>	<ul style="list-style-type: none"><li>· INTRODUCTION OF POLITICAL SCIENCE &amp; POLITICS<ul style="list-style-type: none"><li>➤ Distinction between Political Science and Politics</li></ul></li><li>• CITIZENS AND GOVERNMENT</li><li>• STATE, SOCIETY, GOVERNMENT &amp; NATION<ul style="list-style-type: none"><li>➤ Difference between State and Society</li><li>➤ Difference between State and Government</li></ul></li><li>• NATION</li><li>• TYPES OF POLITICAL SYSTEM<ul style="list-style-type: none"><li>➤ Democracy<ul style="list-style-type: none"><li>✓ Types of Democracy<ul style="list-style-type: none"><li>▪ Direct Democracy, Indirect Democracy</li></ul></li><li>✓ Some available devices of direct democracy<ul style="list-style-type: none"><li>▪ Referendum, Initiative, Recall, Plebiscite</li></ul></li></ul></li></ul></li><li>• FORMS OF GOVERNMENT<ul style="list-style-type: none"><li>➤ Unitary, Federal, Parliamentary, Presidential</li></ul></li></ul>
<b>Lecture - 2</b>	<ul style="list-style-type: none"><li>• CONSTITUTION - what, why &amp; how?</li><li>• TYPES OF CONSTITUTION<ul style="list-style-type: none"><li>➤ Written, Unwritten</li></ul></li><li>• VARIOUS RULING SYSTEMS OF THE WORLD<ul style="list-style-type: none"><li>➤ Monarchy, Autocracy, feudalism, Federalism, Republic, Communalism and Democracy</li></ul></li><li>• Historical background of Indian Constitution<ul style="list-style-type: none"><li>➤ Company Rule (1773-1858) &amp; Crown Rule (1858-1947)</li></ul></li><li>• FRAMING OF INDIAN CONSTITUTION<ul style="list-style-type: none"><li>➤ Constituent Assembly- Composition, Drafting Committee</li><li>➤ Sources of Indian constitution</li><li>➤ Salient features of the Constitution</li></ul></li></ul>
<b>Lecture - 3</b>	<ul style="list-style-type: none"><li>• Preamble</li><li>• KEY WORDS IN THE PREAMBLE<ul style="list-style-type: none"><li>➤ Sovereign, Socialist, Secular, Democratic, Republic, Justice, Liberty, Equality and Fraternity</li></ul></li><li>• Significance &amp; Amendability Of The Preamble</li></ul>
<b>TEST-1</b>	CODE-PL01



<b>Lecture - 4</b>	<ul style="list-style-type: none"> <li>· UNION AND ITS TERRITORY               <ul style="list-style-type: none"> <li>➤ Union Of States (Article 1-4)</li> </ul> </li> <li>• Re-Organisation Of States               <ul style="list-style-type: none"> <li>➤ D h a r Commission , J V P Committee, Fazl Ali Commission</li> </ul> </li> <li>• CITIZENSHIP (Article 5-11)               <ul style="list-style-type: none"> <li>➤ Acquisition Of Citizenship, Loss Of Citizenship</li> <li>➤ Single Citizenship</li> </ul> </li> <li>• Comparison of Non Resident Indian (NRI), Person of Indian Origin (PIO) &amp; Overseas Citizen of India (OCI) Cardholder</li> </ul>
<b>Lecture - 5&amp;6</b>	<ul style="list-style-type: none"> <li>· FUNDAMENTAL RIGHTS (Article 12 - 35)               <ul style="list-style-type: none"> <li>➤ Features Of Fundamental Rights</li> <li>➤ Right To Equality                   <ul style="list-style-type: none"> <li>✓ Equality Before Law And Equal Protection Of Laws</li> </ul> </li> <li>➤ Right To Freedom</li> <li>➤ Protection In Respect Of Conviction For Offences                   <ul style="list-style-type: none"> <li>✓ No <i>ex-post-facto</i> law, No double jeopardy , No self-incrimination</li> </ul> </li> <li>➤ Protection Of Life And Personal Liberty                   <ul style="list-style-type: none"> <li>✓ Right To Education</li> </ul> </li> <li>➤ Right Against Exploitation</li> <li>➤ Right To Freedom Of Religion</li> <li>➤ Culture And Education Rights</li> </ul> </li> </ul>
<b>Lecture - 7&amp;8</b>	<ul style="list-style-type: none"> <li>• DIRECTIVE PRINCIPLES OF STATE POLICY (DPSP)               <ul style="list-style-type: none"> <li>➤ Features, Classification, Implementation and Criticism of DPSP.</li> <li>➤ Conflict between fundamental rights &amp; Directive Principals.</li> </ul> </li> <li>• FUNDAMENTAL DUTIES (FD)</li> </ul>
<b>TEST-2</b>	CODE-PL02
<b>Lecture - 9</b>	<ul style="list-style-type: none"> <li>· PRESIDENT               <ul style="list-style-type: none"> <li>➤ Election Of The President                   <ul style="list-style-type: none"> <li>✓ Electoral College, Election Process</li> </ul> </li> <li>➤ President-Qualification, Oath and Powers</li> <li>➤ Impeachment Of President</li> <li>➤ Powers And Functions Of The President                   <ul style="list-style-type: none"> <li>✓ Executive Powers, Legislative Powers, Financial Powers, Military Powers, Emergency Powers, Veto Powers, Ordinance Making Power , Pardoning Powers</li> </ul> </li> </ul> </li> <li>• ATTORNEY GENERAL OF INDIA</li> <li>• COMPTROLLER AND AUDITOR GENERAL OF INDIA</li> </ul>



<b>Lecture – 10</b>	<ul style="list-style-type: none"><li>• THE VICE-PRESIDENT<ul style="list-style-type: none"><li>➤ Election Of The VICE- President</li><li>➤ VicePresident-Qualification, Oath and Powers</li><li>➤ Powers And Functions</li></ul></li><li>• THE PRIME MINISTER<ul style="list-style-type: none"><li>➤ Appointment Of The Prime Minister</li><li>➤ Powers And Functions Of The Prime Minister</li></ul></li><li>• CENTRAL COUNCIL OF MINISTERS<ul style="list-style-type: none"><li>➤ Composition Of The Council Of Ministers<ul style="list-style-type: none"><li>✓ Cabinet Ministers, Minister of States, Deputy Ministers</li></ul></li><li>➤ Responsibility Of Ministers</li><li>➤ Role Of Cabinet</li></ul></li></ul>
<b>TEST-3</b>	<b>CODE-PL03</b>





<b>Lecture – 11&amp;12</b>	<ul style="list-style-type: none"><li>• PARLIAMENT<ul style="list-style-type: none"><li>➤ Parliament and its houses<ul style="list-style-type: none"><li>✓ Rajyasabha, Loksabha</li></ul></li><li>➤ Membership Of Parliament</li><li>➤ Speaker Of LokSabha<ul style="list-style-type: none"><li>✓ Powers &amp; Functions Of Speaker, Protem Speaker</li><li>✓ Deputy Speaker Of Loksabha, Leader Of The House and Opposition</li></ul></li><li>➤ Chairman Of RajyaSabha<ul style="list-style-type: none"><li>✓ Deputy Chairman Of RajyaSabha</li></ul></li><li>➤ Language In Parliament</li><li>➤ Sessions Of Parliament</li><li>➤ Adjournment Of Parliament</li></ul></li><li>• MOTIONS IN PARLIAMENT<ul style="list-style-type: none"><li>➤ Closure Motion, Adjournment Motion, No-Confidence Motion, Motion Of Thanks, Censure Motion, No-Confidence Motion</li></ul></li><li>• BILLS IN PARLIAMENT<ul style="list-style-type: none"><li>➤ Ordinary bills, Money bills, Financial bills, Constitution amendment bills</li></ul></li><li>• JOINT SITTING OF TWO HOUSES</li><li>• BUDGET</li><li>• MOTION<ul style="list-style-type: none"><li>➤ Cut Motion, Policy Cut Motion, Economy Cut Motion, Token Cut Motion</li></ul></li><li>• GRANT<ul style="list-style-type: none"><li>➤ Supplementary Grant, Additional Grant, Excess Grant, Vote Of Credit, Exceptional Grant, Token Grant</li></ul></li><li>• FUNDS<ul style="list-style-type: none"><li>➤ Consolidated Fund Of India, Public Account Of India, Contingency Fund Of India</li></ul></li><li>• PARLIAMENTARY COMMITTEES<ul style="list-style-type: none"><li>➤ Standing Committees, Ad Hoc Committees, Public Accounts Committee, Estimates Committee, Committee On Public Undertakings</li></ul></li></ul>
<b>Lecture – 13</b>	<ul style="list-style-type: none"><li>• CONSTITUTION AMENDMENT BILLS<ul style="list-style-type: none"><li>➤ Procedure For Amendment</li></ul></li><li>• BASIC STRUCTURE OF THE CONSTITUTION<ul style="list-style-type: none"><li>➤ Name Of The Case (Year), Elements Of The Basic Structure (As Declared By The Supreme Court)</li></ul></li></ul>
<b>TEST-4</b>	CODE-PL04



<b>Lecture – 14</b>	<ul style="list-style-type: none"><li>• GOVERNOR<ul style="list-style-type: none"><li>➤ Powers And Functions Of Governor<ul style="list-style-type: none"><li>✓ Executive powers, Legislative powers, Financial powers, Judicial powers</li></ul></li><li>➤ Comparing Ordinance-Making Power Of President And Governor</li><li>➤ Comparing Pardoning Powers Of President And Governor</li></ul></li><li>• State Government<ul style="list-style-type: none"><li>➤ Chief Minister- Appointment, Removal, Oath, Tenure And Resignation</li><li>➤ State Council of Ministers</li></ul></li><li>• STATE LEGISLATURE<ul style="list-style-type: none"><li>➤ Legislative Assembly, Legislative Council</li></ul></li><li>• SPEAKER OF LEGISLATIVE ASSEMBLY</li><li>• CHAIRMAN OF LEGISLATIVE COUNCIL</li></ul>
<b>Lecture – 15</b>	<ul style="list-style-type: none"><li>• CENTRE-STATE RELATIONS<ul style="list-style-type: none"><li>✓ Legislative relations, Administrative relations, Financial relations.</li></ul></li><li>• INTER STATE COUNCIL</li><li>• CENTRE STATE RELATION DURING EMERGENCIES</li><li>• DEVELOPMENTS IN CENTRE-STATE RELATIONS</li></ul>
<b>Lecture – 16</b>	<ul style="list-style-type: none"><li>• JUDICIAL SYSTEM OF INDIA<ul style="list-style-type: none"><li>➤ Structure Of The Judiciary</li></ul></li><li>• Supreme Court<ul style="list-style-type: none"><li>➤ Strength Of Supreme Court Judges</li><li>➤ Qualifications, Appointment, Oath, Tenure, Salary And Impeachment Or Removal</li><li>➤ Jurisdiction Of Supreme Court<ul style="list-style-type: none"><li>✓ Original Jurisdiction, Writ Jurisdiction, Appellate Jurisdiction, Advisory Jurisdiction</li></ul></li></ul></li><li>• HIGH COURT</li><li>• SUBORDINATE COURTS</li><li>• NATIONAL LEGAL SERVICES AUTHORITY<ul style="list-style-type: none"><li>➤ LokAdalats, Family Courts, Gram Nyayalayas</li></ul></li><li>• JUDICIAL REVIEW, JUDICIAL ACTIVISM, JUDICIAL RESTRAINT, PUBLIC INTEREST LITIGATION</li></ul>
<b>TEST-5</b>	CODE-PL05





<b>Lecture - 17</b>	<ul style="list-style-type: none"><li>• LOCAL GOVERNMENT<ul style="list-style-type: none"><li>➤ Growth Of Local Government In India</li></ul></li><li>• PANCHAYATI RAJ<ul style="list-style-type: none"><li>➤ Three-Tier System</li><li>➤ Evolution Of Panchayati Raj<ul style="list-style-type: none"><li>✓ Balwant Rai Mehta Committee, Ashok Mehta Committee, G V K Rao Committee, L M Singhvi Committee, Thungon Committee, Gadgil Committee</li></ul></li></ul></li><li>• GRAM SABHA</li><li>• THE MUNICIPALITIES<ul style="list-style-type: none"><li>➤ Three Types Of Municipalities</li></ul></li></ul>
<b>Lecture - 18</b>	<ul style="list-style-type: none"><li>• EMERGENCY PROVISIONS<ul style="list-style-type: none"><li>➤ National Emergency<ul style="list-style-type: none"><li>✓ Parliamentary Approval, Duration And Revocation Of Proclamation</li><li>✓ Effects Of National Emergency</li><li>✓ Effect On The Fundamental Rights</li></ul></li><li>➤ President's Rule</li><li>➤ Financial Emergency</li></ul></li></ul>
<b>Lecture - 19</b>	<ul style="list-style-type: none"><li>• ELECTION MACHINERY<ul style="list-style-type: none"><li>➤ Election Commission Of India<ul style="list-style-type: none"><li>✓ Chief Electoral Officer , District Election Officer , Returning Officer , Presiding Officer</li></ul></li></ul></li><li>• ELECTION PROCESS</li><li>• INDEPENDENT ELECTION COMMISSION</li><li>• ELECTORAL REFORMS<ul style="list-style-type: none"><li>➤ Introduction Of Vvpat, Introduction Of Nota Option, First Past The Post System</li></ul></li></ul>
<b>TSET-6</b>	<b>CODE-PL06</b>
<b>Lecture - 20</b>	<ul style="list-style-type: none"><li>• Constitutional Bodies<ul style="list-style-type: none"><li>➤ Union Public Service Commission</li><li>➤ State Public Service Commission</li><li>➤ Joint State Public Service Commission</li><li>➤ National Commission For Sc</li><li>➤ National Commission For St</li><li>➤ Special Officer For Linguistic Minorities</li></ul></li></ul>





<b>Lecture - 21</b>	<ul style="list-style-type: none"><li>• Non Constitutional Bodies<ul style="list-style-type: none"><li>➤ NitiAayog Composition Objectives</li><li>➤ Erstwhile Planning Commission</li><li>➤ The National Development Council</li><li>➤ National Human Right Commission</li><li>➤ State Human Rights Commission</li><li>➤ Human Rights Courts</li><li>➤ Central Information Commission</li><li>➤ State Information Commission</li><li>➤ Central Vigilance Commission</li><li>➤ Whistle Blowers Act (2011)</li><li>➤ Central Bureau Of Investigation</li><li>➤ Lokpal</li></ul></li></ul>
<b>Lecture - 22</b>	<ul style="list-style-type: none"><li>• OTHER CONSTITUTIONAL DIMENSIONS<ul style="list-style-type: none"><li>➤ Co-Operative Societies</li><li>➤ Official Language</li><li>➤ Classical Language Status</li><li>➤ Tribunals</li><li>➤ Rights And Liabilities Of The Government</li><li>➤ Authoritative Text Of The Constitution In Hindi Language</li><li>➤ Jammu And Kashmir Status (Art. 370)</li><li>➤ Important Features Of Special Status</li><li>➤ Pressure Groups And Movements</li></ul></li></ul>
<b>TEST-7</b>	<b>CODE-PL07</b>

<b>S. No.</b>	<b>ECONOMICS</b>	<b>Polity</b>
	<b>MICRO ECONOMICS</b>	



**LECTUR  
E-1& 2**

**Introduction**

- Economics Vs Economy
- Types of Economics
  - Microeconomics
  - Positive And Normative
- Central problems of Economy
  - Production Possibility Curve,**
  - Opportunity Cost,
- Types of Economics System
  - Centrally Planned Economy
  - Market Economy
  - Mixed Economy
- Sectors of Economy
  - Primary, Secondary And
  - Tertiary Sectors

**Consumer behaviour and Demand**

- Utility
  - Cardinal & Ordinal Utility
  - Analysis
  - Indifference Curve**
  - Consumers Budget** & its
  - Equilibrium

**Demand**

- Meaning & Law of Demand
- Factors of Demand
- **Demand Curve**
- Movement And Shift in Demand Curve
- Elasticity of Demand
- Types of Goods
  - Normal,
  - Inferior, Luxury, Complementar y,
  - Substitute & Giffin Goods



<b>LECTUR E-2&amp; 3</b>	<p><b>Production, Supply and Cost</b></p> <ul style="list-style-type: none"><li>➤ Concept of Production Function: Short Run And Long Run</li><li>➤ Total Product, Average Product and Marginal Product</li><li>➤ Law of Variable proportions</li><li>➤ Producer's Equilibrium MR-MC Approach</li></ul> <p><b>Supply</b></p> <ul style="list-style-type: none"><li>➤ Meaning and Law of Supply</li><li>➤ Supply Curve, Supply Schedule and its Function</li><li>➤ Movement And Shift in Supply Curve</li></ul> <p><b>Cost</b></p> <ul style="list-style-type: none"><li>➤ Concept and its Types (Explicit &amp; Implicit)</li><li>➤ Total Cost, Average Cost And Marginal Cost and their Relations</li><li>➤ Revenue and its Forms</li></ul>
<b>LECTUR E-4</b>	<p><b>Market Structure And Price Determination</b></p> <ul style="list-style-type: none"><li>➤ Concept</li><li>➤ Forms of Market- Perfect Competition, Monopoly, Monopolistic, Duopoly, Monoposony &amp; Oligopoly</li><li>➤ Firms Revenue Curve in Different Markets</li><li>➤ Market Equilibrium Under Perfect Competition</li><li>➤ Effects of Shifts In Demand And supply</li><li>➤ Simple Application Tools for Demand Supply Curves</li></ul>
<b>TEST- 1                      CODE- MICE01</b>	
<b>MACRO ECONOMICS/INDIAN ECONOMY</b>	



**LECTUR  
E-5 &6**

**Indian economy on the eve of independence**

- Indian Economy (1950-1990)
- Goals of Five Year Plans
- Planning Commission, National Development Council AND NITI Aayog
- Economic Reforms Since 1991
- Economic Crisis and its causes
- Liberalisation, Privatisation and Globalisation
- New Economic Policy (NEP)
- World Trade Organisation (WTO)

**National Income Accounting**

- Meaning
- Circular flow of National Income
- Methods of calculating Income
- The product or value-added method
- Expenditure Method
- Income Method
- Factor cost, Basic Prices and Market Prices
- GDP, (GNP), (NNP), Personal Income And Disposable Income
- GDP Deflator
- The Multiplier Mechanism
- Paradox of Thrift
- GDP and Welfare
- Taxes , its Types & Implications on People And the Economy, Laffer Curve, Tax GDP ratio



<b>LECTUR E-7&amp; 8</b>	<p><b>Inflation</b></p> <ul style="list-style-type: none"><li>➤ Meaning &amp; Base Effect in Inflation</li><li>➤ Causes</li><li>➤ Core Inflation v/s Headline Inflation</li><li>➤ Cost push inflation v/s Demand pull Inflation</li><li>➤ Relation between Growth And Inflation: Phillips Curve</li><li>➤ Impacts</li><li>➤ Measures</li></ul> <p><b>Money and Banking</b></p> <p><b>Money</b></p> <ul style="list-style-type: none"><li>➤ Money &amp; its Functions</li><li>➤ Stock of Money- M0, M1, M2, M3 &amp; M4</li><li>➤ Money Multiplier</li></ul> <p><b>Banking</b></p> <ul style="list-style-type: none"><li>➤ Banking Structure</li><li>➤ Money Creation By</li><li>➤ Banking Reforms by the Commercial Banking System</li><li>➤ Reserve Bank of India</li><li>➤ Control</li><li>➤ Non-Performing Asset (NPA)</li><li>➤ Financial Inclusion-Micro Finance</li><li>➤ Label ATMs</li><li>➤ Recent Development</li></ul>
<b>TEST- 2                      CODE- MACE01</b>	
<b>LECTUR E-9 &amp; 10</b>	<ul style="list-style-type: none"><li>• <b>Government Budget and the Economy</b><ul style="list-style-type: none"><li>➤ History of Budget in India</li><li>➤ Annual Financial Statement</li><li>➤ Government Receipts &amp; Expenditure and their Classification</li><li>➤ Objectives of Government Budget</li><li>➤ Balanced, Surplus and Deficit Budget etc.</li><li>➤ Measures of Government Deficit<ul style="list-style-type: none"><li>✓ Fiscal Policy</li><li>✓ Gender Budget</li></ul></li><li>➤ FRBM Act 2003</li></ul></li></ul>



<b>LECTUR E-12 &amp; 13</b>	<b>Balance of Payments</b> <ul style="list-style-type: none"><li>➤ Current Account and Capital Account</li><li>➤ BOP-Surplus and Deficit</li><li>➤ Autonomous and Accommodating Transactions</li><li>➤ Foreign Exchange Market</li><li>➤ Nominal exchange rate and Real exchange rate</li><li>➤ Determination of the Exchange Rate in Free Market &amp; Other Markets</li><li>➤ Fixed, Flexible ,and Managed Floating</li><li>➤ Factors effecting Exchange rate</li></ul>
	<b>TEST- 3                      CODE- MACE02</b>
<b>INDIAN ECONOMY</b>	
<b>LECTUR E-15</b>	<ul style="list-style-type: none"><li>• <b>Poverty and Unemployment</b><ul style="list-style-type: none"><li>➤ Meaning &amp; Types of Poverty</li><li>➤ Causes of poverty</li><li>➤ Measuring Poverty in India (Consumption/Expenditure Method, Head Count Ratio)</li><li>➤ Poverty Alleviation and programmes</li></ul></li><li>• <b>Unemployment</b><ul style="list-style-type: none"><li>➤ Meaning</li><li>➤ Causes and Types</li><li>➤ Measurements</li><li>➤ How to control</li></ul></li><li>• <b>Human Capital Formation in India</b><ul style="list-style-type: none"><li>➤ Human Capital</li><li>➤ Sources of Human Capital</li><li>➤ Human Capital and Human Development</li></ul></li></ul>
	<b>TEST- 4                      CODE- INE01</b>



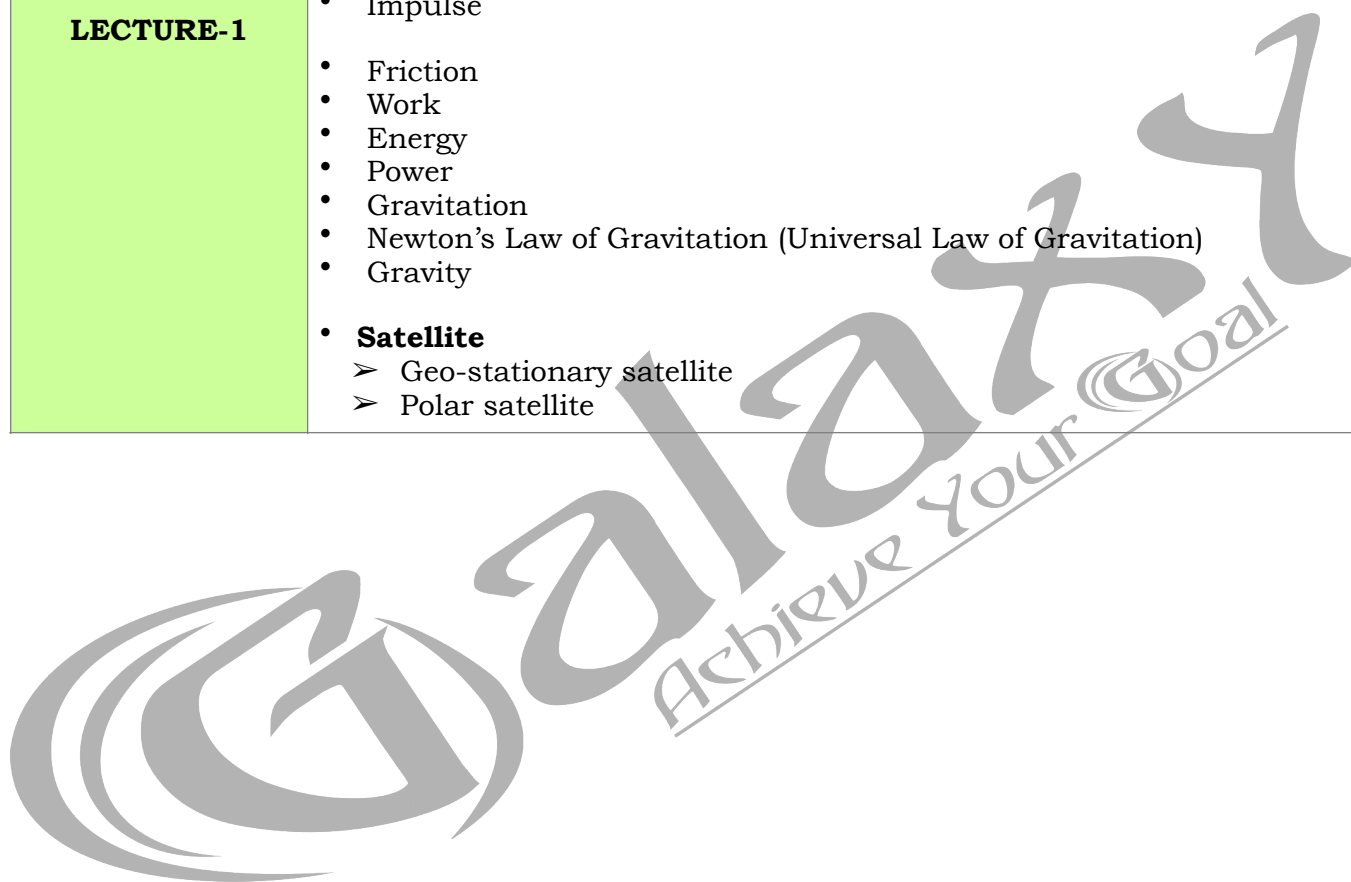
<b>LECTUR E-16 &amp; 17</b>	<b>Agriculture and Rural Development</b> <ul style="list-style-type: none"><li>➤ Introduction</li><li>➤ Challenges</li><li>➤ Green Revolutions</li><li>➤ Food Security</li><li>➤ Land Reforms</li><li>➤ Agricultural Market System</li><li>➤ Self Help Groups</li><li>➤ Initiatives</li><li>➤ Sustainable Development and Organic Farming</li></ul>
<b>LECTUR E-20</b>	<b>Infrastructure</b> <ul style="list-style-type: none"><li>➤ Relevance of Infrastructure</li><li>➤ state of Infrastructure in India</li></ul> <b>Energy</b> <ul style="list-style-type: none"><li>➤ Consumption Pattern of Commercial Energy</li><li>➤ Its Role in Economic Development</li></ul> <b>Health</b> <ul style="list-style-type: none"><li>➤ Healthcare System in India</li><li>➤ Indicators of Health and Health Infrastructure</li></ul>
<b>LECTUR E-21</b>	<b>Sustainable Development</b> <ul style="list-style-type: none"><li>➤ Carrying capacity</li><li>➤ Absorptive capacity</li><li>➤ Population Explosion</li><li>➤ Industrial Revolution</li><li>➤ Opportunity cost</li></ul> <b>Comparative Development Experiences of India and Its Neighbours</b> <ul style="list-style-type: none"><li>➤ Developmental strategies of India, Pakistan and China and their Strategies</li><li>➤ Comparison of the developmental indicators of India, China and Pakistan</li><li>➤ Indicators of Human Development 2015</li><li>➤ Development Strategies</li></ul>
<b>TEST- 5</b>	<b>CODE- INE02</b>



## PHYSICS

### LECTURE-1

- **Units And Symbols**
- Scalar and Vector Quantities
- Motion
  - Rectilinear motion
  - Angular motion
  - Rotational motion
- Force
- Torque (or Moment of Force)
- Applications of Centripetal and Centrifugal forces
- Newton's Laws of Motion
- Impulse
- Friction
- Work
- Energy
- Power
- Gravitation
- Newton's Law of Gravitation (Universal Law of Gravitation)
- Gravity
- **Satellite**
  - Geo-stationary satellite
  - Polar satellite







## LECTURE-2

- **Mechanical Properties of Solids**
  - Elasticity and Plasticity
  - Stress and Strain
  - Hooke's Law
  - Modulus of Elasticity
  - Young's Modulus of Elasticity
- **Mechanical Properties of Fluids**
  - Fluid Pressure
  - Atmospheric pressure
  - Pascal's Law Buoyancy
  - Archimedes' Principle
  - Applications of Archimedes Principle
  - Surface Tension
  - Capillarity
  - Flow of Fluid
  - Bernoulli's Theorem
  - Viscosity
  - Factors affecting Viscosity
  - Stoke's Law
  - Application of Stoke's Law
  - Terminal Velocity
- **THERMAL PROPERTIES OF MATTER**
  - Ideal-gas equation and Absolute temperature
  - Boyle's law
  - Charles' law
  - Kirchhoff's law
  - Black Body
  - Newton's Law of Cooling
- **THERMODYNAMICS**
  - Thermal equilibrium
  - Zeroth law of thermodynamics
  - First law of thermodynamics
  - Heat engines
  - Second law of thermodynamics
- **OSCILLATIONS**
  - Simple Harmonic Motion
- **WAVES**
  - Types of Waves
  - Types of Mechanical Waves
  - Sound Waves
  - Doppler Effect
  - Electromagnetic Waves



### LECTURE-3

- **ELECTRICITY**
  - Charge
  - Coulomb's law
  - Electrolysis
  - Types of Electric Current
  - Electric Cell
  - Faraday's Laws of Electrolysis Ohm's law
  - Conductors, Resistors, Semiconductors and Insulators
  - Ammeter and Voltmeter
  - Heating Effect of Electricity
  - Electric Power
  - Capacitor
- **MAGNETISM**
  - Magnetic Field
  - Magnetism and Matter
  - Bar Magnet
  - Gauss's law
  - Magnetic properties of materials
  - Ferromagnetism
  - Diamagnetism
  - Paramagnetism
  - Magnetic Permeability
  - Magnetic Susceptibility and Retentivity
  - Permanent magnets and Electromagnets
  - Electromagnetic Induction
  - Faraday's law of Induction
  - Fleming's Right Hand Rule
  - Inductance
  - AC generator

TEST- 1

CODE- PHY01



#### LECTURE-4

- **OPTICS**
- **Light**
- ✓ Reflection of light
- ✓ Laws of Reflection
- ✓ Mirror
- ✓ Use of Spherical Mirrors
- ✓ Mirror Formula
- ✓ Law of Refraction
- ✓ Refractive Index
  
- ✓ Total Internal Reflection
  
- ✓ Spherical Lenses
- ✓ Lens Formula
- ✓ Power of a lens
  
- ✓ Dispersion of Light
- ✓ Creation of Rainbow
  
- ✓ Scattering of light
  
- ✓ Colours
  
- **Human Eye**
- Defects of Human Eye
- **Optical Instrument**
- The Microscope
- Telescope

#### LECTURE-5

- **DUAL NATURE OF RADIATION AND MATTER**
- Electron emission
- Einstein's photoelectric equation
- Wave nature of matter
- The heisenberg's uncertainty principle
- Atoms and nuclei
- **MODERN PHYSICS**
- Semiconductor
- Classification of metals, conductors and semiconductors
- Light emitting diode
- Solar cell
- Transistor
- **COMMUNICATION SYSTEMS**

TEST- 2

CODE- PHY02



S. No.	CHEMISTRY
<b>Lecture - 1</b>	<ul style="list-style-type: none"><li>• <b>BASIC CONCEPTS OF CHEMISTRY</b><ul style="list-style-type: none"><li>➤ <b>Matter and its states</b></li><li>➤ <b>Comparison between Solids, Liquids and Gases</b></li><li>➤ <b>Change of States of Matter</b></li><li>➤ <b>Sublimation</b></li><li>➤ <b>Evaporation</b></li><li>➤ <b>Particles of Matter</b></li><li>➤ <b>Classification of Matter</b></li><li>➤ <b>Properties of Matter and Their Measurement</b></li><li>➤ <b>Laws of Chemical Combinations</b><ul style="list-style-type: none"><li>✓ Law of Conservation of Mass</li><li>✓ Law of Constant</li></ul></li><li>➤ <b>Gas Laws</b><ul style="list-style-type: none"><li>✓ Boyle's Law, Charles' Law &amp; Gay Lussac's Law:</li><li>✓ Combined Gas Law or Ideal Gas Equation</li></ul></li></ul></li><li>➤ <b>Atomic Structure and Atomic Theories</b><ul style="list-style-type: none"><li>➤ <b>Dalton's Atomic Theory</b></li><li>➤ <b>Modern Atomic Theory</b></li><li>➤ <b>Different Atomic Species</b></li><li>➤ <b>Isotope&amp;Isobars</b></li><li>➤ <b>Atomic and Molecular Masses</b></li><li>➤ <b>Atomic Mass , Average Atomic Mass&amp;Molecular Mass</b></li><li>➤ <b>Mole Concept and Molar Masses</b></li></ul></li></ul>
<b>Lecture - 2</b>	<ul style="list-style-type: none"><li>• <b>Elements Compounds and Mixtures</b></li><li>• <b>Classification of Elements – Periodic Table</b><ul style="list-style-type: none"><li>➤ <b>Halogens, Noble Gases</b></li><li>➤ <b>Alloys, Metallurgy and Ores</b></li></ul></li><li>• <b>Chemical Formula</b></li><li>• <b>Solution, Solute and Solvent</b><ul style="list-style-type: none"><li>➤ <b>Tyndall effect</b></li><li>➤ <b>Colloidal Solution</b></li></ul></li><li>• <b>CHEMICAL BONDING AND STRUCTURE</b><ul style="list-style-type: none"><li>➤ <b>Electronic Theory of Valency</b></li><li>➤ <b>Types of Chemical Bonds</b><ul style="list-style-type: none"><li>✓ Electrovalent or ionic bond , Covalent bond, Hydrogen Bond, Coordinate or Dative covalent bond</li></ul></li><li>➤ <b>Van der Waals' forces</b></li></ul></li><li>• <b>CHEMICAL REACTIONS</b><ul style="list-style-type: none"><li>➤ <b>Types of Chemical Reactions</b><ul style="list-style-type: none"><li>✓ Combination Reactions, Decomposition Reactions, Displacement Reactions, Exothermic and Endothermic Reactions, Reversible and Irreversible Reactions</li></ul></li></ul></li><li>• <b>Acid base and salts</b></li><li>• <b>Radioactivity</b></li></ul>



<b>Lecture - 3</b>	<ul style="list-style-type: none"> <li>• <b>BASIC ORGANIC CHEMISTRY, HYDROCARBONS</b> <ul style="list-style-type: none"> <li>➤ <b>Some organic compounds, their properties and uses</b> <ul style="list-style-type: none"> <li>✓ Methane , Methyl alcohol, Ethyl alcohol , Methyl Isocyanate, Urea, Dichlorodiphenyltrichloro ethane, Trinitrotoluene (TNT), Chloroform, Glycerol, Formic acid, Acetic acid, Oxalic acid</li> </ul> </li> <li>➤ <b>Allotropes of Carbon</b></li> </ul> </li> <li>• <b>CHEMISTRY IN EVERYDAY LIFE</b> <ul style="list-style-type: none"> <li>➤ <b>Synthetic Materials in Everyday Life</b></li> <li>➤ <b>Manure, Fertilizers and Pesticides</b></li> <li>➤ <b>RDX (Research and development explosive, Dynamite</b></li> <li>➤ <b>Polymers- Polythene, Teflon, Thermocol, Carbon fibres, Nylon, Rubber</b></li> <li>➤ <b>Analgesics (Pain relievers), Antibiotics, Antiseptics and Disinfectants</b></li> <li>➤ <b>Chemicals in Food</b></li> <li>➤ <b>Fire Extinguisher</b></li> <li>➤ <b>Chemicals in Cosmetics</b></li> </ul> </li> </ul>
S. No.	Biology
<b>Lecture - 1</b>	<ul style="list-style-type: none"> <li>• <b>The living world</b></li> <li>• <b>Biological Classification of Plants and Animals</b> <ul style="list-style-type: none"> <li>➤ Monera, Protista, Fungi, Plantae, Animalia</li> </ul> </li> <li>• <b>Plant Kingdom</b> <ul style="list-style-type: none"> <li>➤ Plant Parts and Their Functions</li> <li>➤ Structural Organization in Plants</li> <li>➤ Transport Of Water And Minerals In Plants</li> <li>➤ Thallophytes, Bryophytes, Pteridophytes etc.</li> <li>➤ Morphology &amp; Anatomy of flowering plants.</li> </ul> </li> </ul>
<b>Lecture - 2</b>	<ul style="list-style-type: none"> <li>• <b>Plant Tissues</b> <ul style="list-style-type: none"> <li>➤ Nutrition in Plants</li> <li>➤ Photosynthesis – Food Making Process In Plants</li> </ul> </li> <li>• <b>Classification of Animal Kingdom</b> <ul style="list-style-type: none"> <li>➤ Phylums- Annelida, Mollusca etc.</li> <li>➤ Classes- reptilian, mammalia, pisces etc.</li> </ul> </li> </ul>
<b>Lecture - 3</b>	<ul style="list-style-type: none"> <li>• <b>Cell &amp; cell organelle</b> <ul style="list-style-type: none"> <li>➤ Prokaryotic Cells vs. Eukaryotic Cells</li> <li>➤ Cell cycle and cell division</li> </ul> </li> </ul>
<b>TEST-1</b>	<b>TEST CODE- BI01</b>
<b>Lecture - 4</b>	<ul style="list-style-type: none"> <li>• <b>Animal Tissues</b> <ul style="list-style-type: none"> <li>➤ Epithelial Tissue, Connective Tissue, Muscular Tissue etc.</li> </ul> </li> <li>• <b>Biomolecules</b> <ul style="list-style-type: none"> <li>➤ Vitamins, fats , enzymes</li> <li>➤ Deficiency diseases</li> </ul> </li> </ul>



<b>Lecture - 5</b>	<ul style="list-style-type: none"> <li>• <b>Human Digestive System</b> <ul style="list-style-type: none"> <li>➤ Digestion and absorption,</li> <li>➤ Digestive Glands</li> </ul> </li> <li>• <b>Human Respiratory System</b> <ul style="list-style-type: none"> <li>➤ Respiration</li> <li>➤ Mechanism of Breathing</li> <li>➤ Exchange of Gases</li> <li>➤ Transport of Gases</li> </ul> </li> </ul>
<b>Lecture - 6</b>	<ul style="list-style-type: none"> <li>• <b>Circulatory System</b> <ul style="list-style-type: none"> <li>➤ Blood &amp; Blood Vessels</li> <li>➤ Lymph (Tissue Fluid)</li> <li>➤ Cardiac Cycle</li> <li>➤ Blood Groups</li> </ul> </li> <li>• <b>Endocrine system</b> <ul style="list-style-type: none"> <li>➤ Glands and Hormones</li> <li>➤ Pancreas</li> <li>➤ Hormones of Heart, Kidney and Gastrointestinal Tract</li> <li>➤ Mechanism of Hormone Action</li> <li>➤ Neural Control and Coordination</li> </ul> </li> </ul>
<b>TEST-2</b>	<b>TEST CODE-BI02</b>
<b>Lecture - 7</b>	<ul style="list-style-type: none"> <li>• <b>Nervous System</b> <ul style="list-style-type: none"> <li>➤ Human Brain</li> <li>➤ Reflex Action and Reflex Arc</li> </ul> </li> <li>• <b>Movements</b> <ul style="list-style-type: none"> <li>➤ Muscular System – Muscle Types</li> <li>➤ Skeletal System</li> </ul> </li> </ul>
<b>Lecture - 8</b>	<ul style="list-style-type: none"> <li>• <b>Reproduction</b> <ul style="list-style-type: none"> <li>➤ Reproduction in organism</li> <li>➤ Reproduction in plants</li> <li>➤ Human reproduction</li> <li>➤ Fertilization, Implantation &amp; Vitro Fertilization</li> </ul> </li> <li>• <b>Excretory System</b> <ul style="list-style-type: none"> <li>➤ Microbes in human welfare</li> </ul> </li> </ul>
<b>Lecture - 9</b>	<ul style="list-style-type: none"> <li>• <b>Diseases Acute and Chronic Diseases</b> <ul style="list-style-type: none"> <li>➤ Communicable Diseases</li> <li>➤ Diseases Caused by Microorganisms</li> <li>➤ Organ-Specific And Tissue Specific Diseases</li> <li>➤ Vaccination and Immunization</li> <li>➤ Diseases in Indian Children</li> </ul> </li> </ul>
<b>TEST 3</b>	<b>TSET CODE-BI03</b>

<b>S. No.</b>	<b>Ecology &amp; Environment</b>
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Lecture-1	<ul style="list-style-type: none"> <li>• <b>Organism and The Environment</b> <ul style="list-style-type: none"> <li>➤ Level of Organization</li> <li>➤ Environment, Habitat and Niche</li> </ul> </li> <li>• <b>Ecosystem- Structure and Function</b> <ul style="list-style-type: none"> <li>➤ Components, structure and functions of ecosystem</li> <li>➤ Energy flow, <b>Food Chain, Food Web</b></li> <li>➤ Ecological pyramids and efficiencies</li> <li>➤ Terrestrial &amp; Aquatic Ecosystem</li> <li>➤ Major Biomes</li> </ul> </li> </ul>
Lecture-2	<ul style="list-style-type: none"> <li>• <b>Biogeo Chemical Cycling or Nutrient Cycling</b> <ul style="list-style-type: none"> <li>➤ Nutrient Cycles, Carbon, Nitrogen, Phosphorus &amp; Sulphur Cycle</li> </ul> </li> <li>• <b>Population, Biotic Community and Succession</b> <ul style="list-style-type: none"> <li>➤ Population</li> <li>➤ Ecological interdependence and interaction</li> <li>➤ Biotic Community</li> <li>➤ Succession</li> </ul> </li> </ul>
Lecture-3&4	<ul style="list-style-type: none"> <li>• <b>Biodiversity</b> <ul style="list-style-type: none"> <li>➤ Levels and magnitude of biodiversity</li> <li>➤ Gradients and uses of biodiversity</li> <li>➤ Threats and conservation to biodiversity</li> <li>➤ Biodiversity hotspots</li> <li>➤ IUCN Red List or Red Data List or Red Book</li> <li>➤ International efforts for conserving biodiversity</li> <li>➤ Biodiversity Conservation in India</li> <li>➤ Animal &amp; Plant diversity of India</li> <li>➤ Marine diversity</li> </ul> </li> </ul>
<b>TEST-1</b>	<b>TEST CODE –EV01</b>
Lecture-5	<ul style="list-style-type: none"> <li>• <b>Pollution and Global Environmental Change</b> <ul style="list-style-type: none"> <li>➤ Kinds of pollution; Air, Water, Soil and Noise- Sources, types and effects</li> <li>➤ Ozone depletion, Green house &amp; smog</li> <li>➤ Pollution mitigation strategies</li> <li>➤ Major Global Environmental Issues – climate change, global warming etc.</li> <li>➤ Environmental Impact Assessment</li> </ul> </li> </ul>
Lecture-6	<ul style="list-style-type: none"> <li>• <b>Acts and policies to protect environment</b> <ul style="list-style-type: none"> <li>➤ Institutions and Measures</li> <li>➤ National Wildlife Action Plan</li> <li>➤ Environmental Organizations</li> <li>➤ <b>Wetland Ecosystem- Ramsar Convention, Ramsar Sites</b></li> <li>➤ International Environmental Conventions</li> </ul> </li> </ul>
<b>TEST-2</b>	<b>TEST CODE –EV02</b>

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Total	120	43	7

