

Shri ias upsc prelims \$1'llabus 20??-?3



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» Sankalp Parva-Sankalp se Siddhi'
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Schemes for Development of Cultural Heritage

Sanskriti App

Cultural Mapping of India

Schemes for Monument Development HRIDAY
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» UNESCO inscribes Yoga in the representative list of Intangible Cultural Heritage of Humanity
UNESCO Creative Cities Network UNESCO Global Geopark National Virtual Library of India Jallikattu
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@ Remarks
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WeatheringMass movements

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 Causes Geomorphic Processes Geomorphic Agents Geomorphic Agent Erosional or Destructional Depositional or Constructional
 Causes Geomorphic Processes Geomorphic Agents Geomorphic Agent Erosional or Destructional Depositional or Constructional » Agents and their Impacts - Wind, Running Water, Ground Water, Glaciers,
 Causes Geomorphic Processes Geomorphic Agents Geomorphic Agent Erosional or Destructional Depositional or Constructional Agents and their Impacts - Wind, Running Water, Ground Water, Glaciers, Waves & Currents
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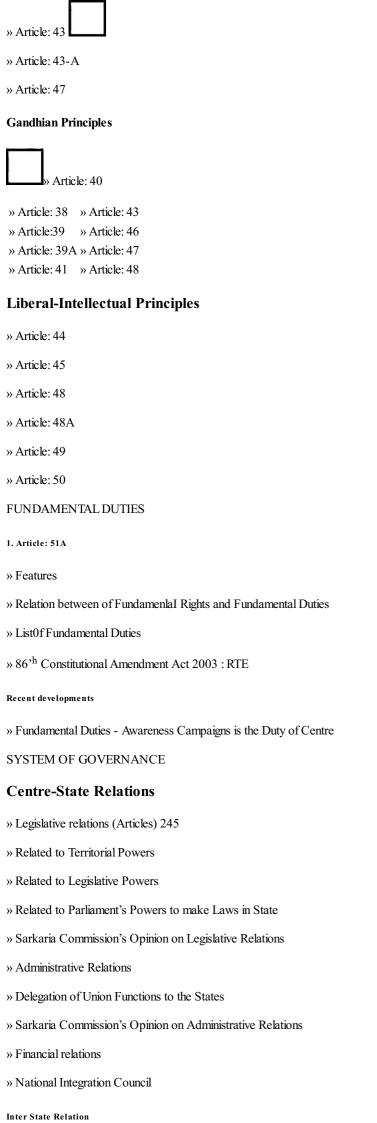
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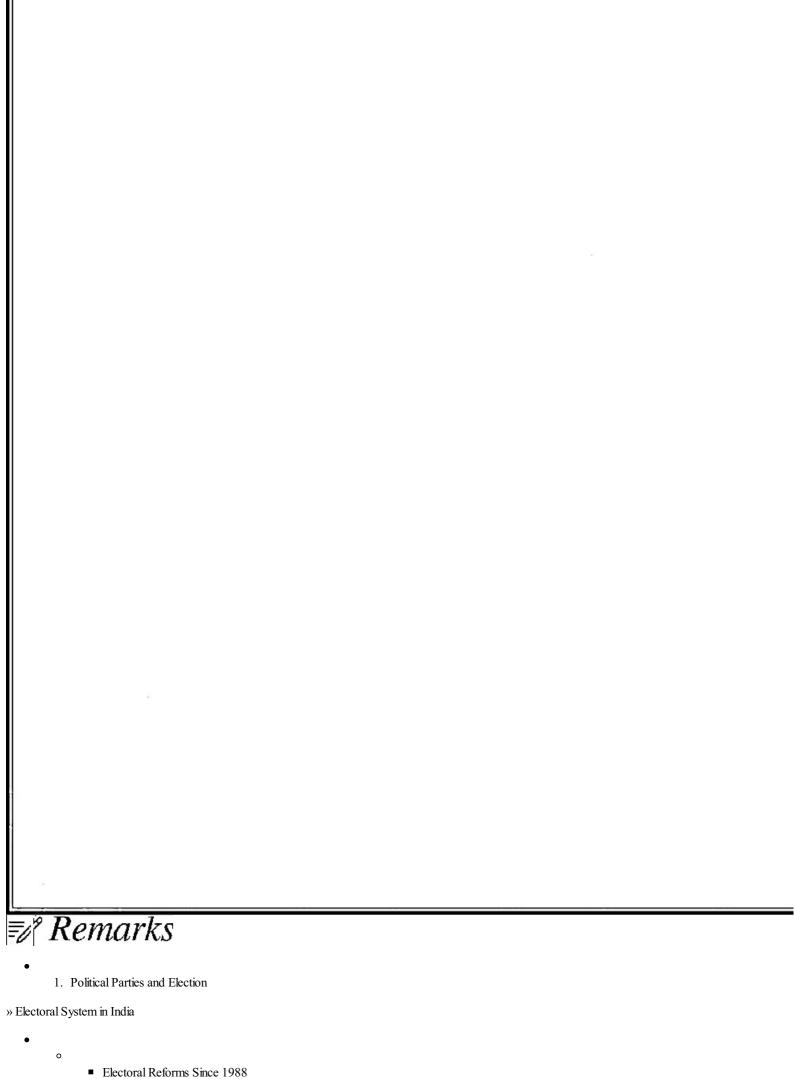
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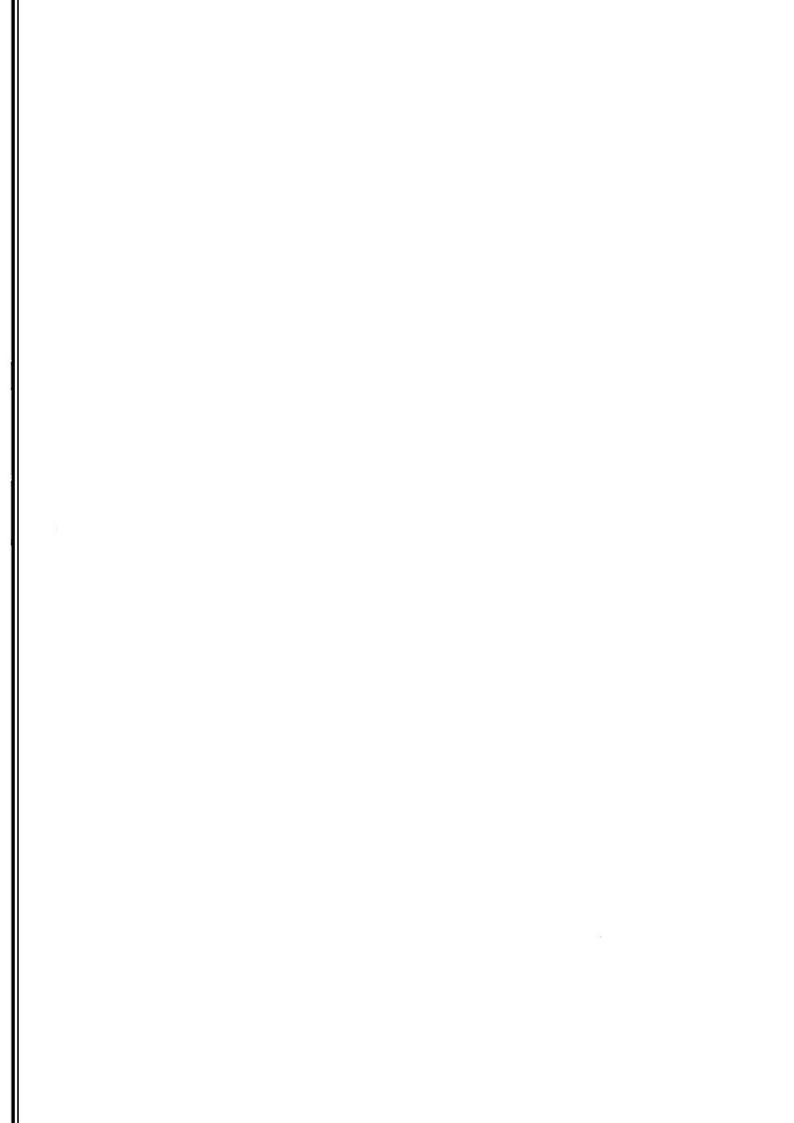
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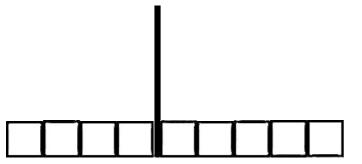
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» LERMS
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» REER
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» UnitedNations
» Food and Agriculture Organization (FAO)
» Internalional Civil Aviation Organization (ICAO)
» Internalional Fund for Agricultural Development (IFAD)
International Labour Organization (ILO)
» International Maritime Organization (IMO)
» International Monetary Fund (IMF)
» Internalional Telecommunication Union (ITU)
» United Nations Educational, Scientific and Cultural Organization (UNESCO)
» United Nations Industrial Development Organization (UNIDO)
» Universal Postal Union (UPU)
» World Bank Group (WBG)
» Internalional Bank for Reconstruction and Development(BRD)
» International Finance Corporation (IFC)
» International Development Association (IDA)
» World Health Organization (WHO)
» World Intellectual Property Organization (WIPO)
» World Meteorological Organization (WMO)
» World Tourism Organization (UNWTO)
» World Trade Organization (WTO)
» Asian Development Bank
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» Expert Groups for Estimating Poverty
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» Asian Infrastructure Investment Bank (AII)
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» Price capping of medical devices in India
» Review of the International Investment Agreement (IIA)
8 ()
» India signed the OECD multilateral convention to prevent BEPS
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» India signed the OECD multilateral convention to prevent BEPS
» India signed the OECD multilateral convention to prevent BEPS (Base Erosion and Profit Shifting)
 » India signed the OECD multilateral convention to prevent BEPS (Base Erosion and Profit Shifting) » Second Exchange Traded Fund (ETF) Bharat 22
 » India signed the OECD multilateral convention to prevent BEPS (Base Erosion and Profit Shifting) » Second Exchange Traded Fund (ETF) Bharat 22 » Double Tax Avoidance Treaty
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 » India signed the OECD multilateral convention to prevent BEPS (Base Erosion and Profit Shifting) » Second Exchange Traded Fund (ETF) Bharat 22 » Double Tax Avoidance Treaty » Preferential Trade Agreement with Chile
 » India signed the OECD multilateral convention to prevent BEPS (Base Erosion and Profit Shifting) » Second Exchange Traded Fund (ETF) Bharat 22 » Double Tax Avoidance Treaty » Preferential Trade Agreement with Chile » Advance Pricing Agreement
 » India signed the OECD multilateral convention to prevent BEPS (Base Erosion and Profit Shifting) » Second Exchange Traded Fund (ETF) Bharat 22 » Double Tax Avoidance Treaty » Preferential Trade Agreement with Chile » Advance Pricing Agreement » National Committee on Trade Facilitation
 » India signed the OECD multilateral convention to prevent BEPS (Base Erosion and Profit Shifting) » Second Exchange Traded Fund (ETF) Bharat 22 » Double Tax Avoidance Treaty » Preferential Trade Agreement with Chile » Advance Pricing Agreement » National Committee on Trade Facilitation » E-tourist Visa
 » India signed the OECD multilateral convention to prevent BEPS (Base Erosion and Profit Shifting) » Second Exchange Traded Fund (ETF) Bharat 22 » Double Tax Avoidance Treaty » Preferential Trade Agreement with Chile » Advance Pricing Agreement » National Committee on Trade Facilitation » E-tourist Visa » India's Asylum Policy
 » India signed the OECD multilateral convention to prevent BEPS (Base Erosion and Profit Shifting) » Second Exchange Traded Fund (ETF) Bharat 22 » Double Tax Avoidance Treaty » Preferential Trade Agreement with Chile » Advance Pricing Agreement » National Committee on Trade Facilitation » E-tourist Visa » India's Asylum Policy » Investor-State Dispute Settlement (ISDS)

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» Other Social Protection Programmes
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• • HealthSchemes
» Women Empowerment Programmes
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» D. P. J. Nayak Committee
» Deepak Mohanty Committee Report
on Medium-term Path on Financial Inclusion
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» Science and technology as a source of Human Resource Development
» Awards related to Science
» New Initiatives Aligned with the National Agenda
» India and World collaboration in science projects
» Technology Vision Document 2035
» National Biotechnology Development Strategy 2015-2020
» National Intellectual Property Rights Policy
» Organdonation rules in India
» Policy on Synthetic Biology
» List of Various Centre Institutions and Bureaus
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 Instilutional structure o Department of Science & Technology CSIR Survey of India
a Science and Engineering Research Council
 TechnologyDevelopmentBoard National Accreditation Board
for Testing and Calibration Laboratories
SDACE

» Space Technology
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» ISR0 and ANTRIX
» Orbits Type
» Satellite Launching Systems
» Terminologies Related to the Space Science
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» Satellite Communication in India
» Remote sensing applications - IRS Sytems
» INSAT Satellite Application
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» Launch vehicle Technology
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» Recent National and International Space Missions
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» Spitzer Space Telescope
» Chandra X-Ray Observatory
» Multi Application Solar Telescope
» Thirty Metre Telescope
» Resourcesal-2A
» Astrosat
» Sunspot
» Magnetars
» Neutron stars
» Air-breathing propulsion system
» Space Junk
» Graveyard Orbit
» Super cluster of galaxies known as "Saraswati".
» NASA: Asteroid impact and deflection assessment mission.
» Commercial use of Lithium-ton battery
technology
» Hyperspectral imaging satellite
» Water propulsion syslem in CUBESAT
» Saturn-cassini Mission
Different Regulatory Bodies in India for ICT
» Ministry of Communication and
information Technology

» 0SIRIS-Rex passed by earth to reach asteroid Bennu
» Hackathon # Open Gov Data Hack
» Google Lunar X Prize Competition
» NASA-ISRO synthetic aperture radar satellite (NISAR)
» GSAT-17 heaviest communication satellite of ISR0
» Astrosat, Chandra and Hubble Jointly detect massive cosmic explosion
» Scientists create first global map of water on moon
» World's Iargesl aircraft "Stralo launch"
» MOM complete 3 years in orbit
» Solar mission Aditya L-1 in 2019
» Gravitational waves news
» Radio galaxies
» Indigenously developed S-Band Doppler weather radar
» Kelvin waves
» ISR0 made satellite based chip system
» TDRS-M NASA
» Neutrino Observatory
» Indian Space Vision-2025 o 'NIRBHAY' sub sonic cruise missile
• Brahmos
• INS Koltar
• INS Kiltan
NAG missile

Hydrogen bomb
Vikram OPV
Integrated Quarter Master Package
INS Kalvari
Prithyi II
Air Independent Propulsion
Rukmini
» Initiatives in 12'^ 5 year plan
» Major Policy Initialives National Optical Fibre network
» Spectrum Management
» Government initiatives
» Cyber Law
Computer Terminology and
1 80
Fundamental » Hislory of Computers
Fundamental
Fundamental » Hislory of Computers
Fundamental » Hislory of Computers » Types of Computer
Fundamental » Hislory of Computers » Types of Computer » Component of Computer system
Fundamental » Hislory of Computers » Types of Computer » Component of Computer system » Computer Languages
Fundamental » Hislory of Computers » Types of Computer » Component of Computer system » Computer Languages » Generation of computers
Fundamental » Hislory of Computers » Types of Computer » Component of Computer system » Computer Languages » Generation of computers • Computer terminologies
Fundamental » Hislory of Computers » Types of Computer » Component of Computer system » Computer Languages » Generation of computers • Computer terminologies • Supercomputer and its applications
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Fundamental » Hislory of Computers » Types of Computer » Component of Computer system » Computer Languages » Generation of computers • Computer terminologies • Supercomputer and its applications » Display technologies » Cathode ray » LCD » LED » Plasma Monitors

» Wireless , Optical Fibres, VSAT SIM IMEI 3G 4 G VoITE Wi Max

» Evolution of Telecommunication

» Media Transmission technology

• Smartphone • Important concepls Internet, Types of Network and e- Governance » Internet » WWW » URL » HTTP » Computer Security Tools: firewalls, hackers » Global Internet Governance e » Internet of things » Internet Protocol » VPN $\ \ \, \text{Networking:} \, Blue to oth \, , \, WiFlHotSpot$ » National E Governance Plan » Recent Developments • Government initiatives • Digital India Initiative MeghRaj • Code Free for India • E-Kranti • Bharat Net project Bharat gR Contemporary debates • Net Nuetrality Internet of Things · Big Data Initiative and Privacy • Cyber crime and security **Spectrum Policy, Broad Band Policy** » Spectrum Policy in India » Spectrum » Mobile Spectrum » Broadband Policy in India • Cloud Computing » Big Data » Encyption » Biometrics • Virtual Reality » Digital India

» Mobile generations

gR Codes Recent Developments in IT & Telecom
'• Quantum computing
•
» Project brainwave
» Sagar Vani System
» Locky Ransomware, Petya, WannaCry
» Hindi word for compuler i.e., "SANGANAK"
» India's first technology and innovation support centre (TISC)
» Net neutrality
» National cyber coordination center
» Hortinet
» Digital Transaction Methodologies
» Block chain Technology
» Bitcoins
» Cyber Swachhta Kendra
» Digital Transaction Methodologies
» Bharat Net Project
Superconductivity Laser, Artificial Intelligence
» History Classification and Properties of Superconductors
» Application of Superconductors
» Types and Applications of LASERS
» Artificial Intelligence and Application
» Advantages and Disadvantages of Artificial Intelligence
Superconductivity Laser, Artificial Intelligence
» ii-Fi Technology
» Digital Terrestrial Television Transmission System
» Internet of Things
Outer Space
• Exploration

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Military Robots	
Disaster Areas	
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Agriculture	
Domestic work	
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o Controller	o Textiles
o Manipulator o EndEffector	o Sustainable energy o Environment
o Sensor	
» Classification of Robots	o Transport o Space
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Walking Robots	• Graphene
 Autonomous Robots 	-
	a quantum Dots
» Artificial Intelligence	
» Advantages and Disadvantages or	fRobot
» Applications of Robotics o Indust	rialSector
AerospaceHealthcare Delivery	
Defence Technology	
> Organisations	
» Missile system and classification	
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■ ■ N	anoBots
	griculture
» Adverse Health and Environmenta	al Impacts of Nanotechnology
» Social and Ethical Impacts:	
» Nano-science and Nano-technological	ogy in India
a On the basis of type	

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• On the basis of launch vehicle
On the basis of Range
o On the basis of propulsion system
» Ballistic vs Cruise Missile
r IGMDPntergratedGudedMissie DevelopmentProgramme
PrithvïTrishul Nag Akash AGNIShaurya Missile
 ASTRA Missile Dhanush Prahaar
» Brahmos Missile Syslem
» Anti-Ballistic Missile System
» Frigates Destroyers and Aircraft Carriers
» AWACS
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» Nuclear Fuel — Stage 1 Stage 2 Stage 3
Nuclear Programme in India
» N-Power Policy of India
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energyDevelopment,AERB
» Safety standards in Nuclear Power plants
» India's 3 stage Civil Nuclear Programme
IPR AND OTHER MISCELLANEOUS ISSUES
1. IPR Intellectual Property Rights
» Copyrights
» Trademarks

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Biotechnology in India
» Department of BT
» Light Combat Aircraft o Unmanned Aerial Vehicle
Stealth technologyChemical WeaponBiological Weapon
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» Commissioned Submarines
» Project 75
» INS Astradharini
» Nuclear Reactors in India
» Kudankulam Project
» Jailapur Plant
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» Department of Atomic Energy
» ВНАВНА
Radioactivity
» Radiation and Radioactivity
» Radiation Technologies and Applications
» Radioactive Waste and Nuclear Waster Management
» Nuclear & Radiological Disasters
» Industrial Design n
» Trades Secrets
» IPR and Agriculture
» Various Fields of BT
» R&D
Genetics and biotechnology
» Industrial genetics
» Genetic engineering
» DNA sequencing
» Nucleic acid probes

» Palents

» Genomics and proteomics
» Bioprocess/fermentation technology
Biological fuel generation
Global warming and the significance of fossils fuels
x Biofuelsfrombiomass
» Bioethanol from biomass
» Biodiesel
» Methane
» Hydrogen
Environmental biotechnology
» Microbial Ecology Environmental Biotechnology
» Waste water and sewage treatment
» Landfilling technologies
» Composting
» Bioremediation
» Detect and monitoring of pollulants
» Microbes and the geological environment
Plant and Forest biotechnology
» Plant biolechnology
» Forest biotechnology
Animal and insect biotechnology
» Genetic manipulation and transgenic animals
» Genetically engineered hormone and vaccines
» Animal organs for human patients
» Genetically modified insects
1. Food and beverage biotechnology
» Food and beverage fermentations o Microorganisms as food, Enzymes
and food processing
0 Amino acids, vitamins and sweeteners
0 Organic acids and polysaccharides
 Public acceptance and safety of new biotechnology foods
» Biotechnology and medicine

Pharmaceuticals and biopharmaceulicalsAntibiotics
 Vaccines and monoclonal antibodies
Biopharmaceuticals/therapeutic proteins
 Pharmacogenetics Molecular biology and human disease
 Diagnostics in developing countries
 Gene therapy Systems biology and medicine
» Stem cell biotechnology
Protection of biotechnological inventions
» Patent protection Trade secrets
» Plant breeders' rights
December describeration Distriction
Recent development in Biotechnology
» Achievements of Biotechnology in different fields
» Genome sequencing of Ragi done for the first time in the world
» GM mustard policy
» DNA as storage device
» Biomarker
» Algae based footwear
» Artificial Womb
» U.K. grants gene editing license
» GM Mosquito
» DBT launched "Sohum" an innovative newborn hearing screening device
» Biotech-KISAN scheme
» India's first biomass to elhanoI plant & its commercialization
» Digital Biopiracy
» Genetically Modified Mosquito
» Designer Babies' or Three Parents Babies
» National Biotechnology Development Strategy 2015-2020
GENERAL SCIENCE
Origin of Life and Cells

BIOLOGY » Cell Structure » Membranes o Cell-Cell Interactions » Energy and Metabolism » Respiration o Cell Division » Sexual Reproduction 1. Genetics » Inheritance o DNA, The Genetic Material Gene Expression » Gene Regulation » Mutation » Recombinant DNA Technology **Classification of Living Things** » Classification and Domains of Life » General Biology/Classification of Living Things/Viruses » Prokaryotes » Eukaryotes o Prolista Plants • Fungi Animals **Evolution of Life** » Evolution of Life » Animal Evolution » Human Evolution » Epithelial tissue » Connective tissue

» Muscle tissue

Endocrine system

» Hypothalamus

» Pineal body (epiphysis)

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Transport system in a Cell
» Transport System in Plants
» Transporl System in Animals
» Blood Vascular System
» The Lymphatic System
Skeletal and Muscular Systems
» Bone and Skeleton System (Osteology)
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» Sexual Reproduction in Plants
» Sexual Reproduction in Animals Sexual Reproduction in Humans
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» Plant Nutrition

» Pituilary gland (hypophysis)

» Animal Nutrition

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o Diabetes mellitus
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Crabs - Pearl oysters - Fishes - Guano - Aquarium - Vivarium.
» Harmful animals: Disease causing organisms - Vectors - Poisonous organisms - Fouling organisms - Pests.
Recent Development
» India has declared free from Bird flu
» Revised Draft guidelines for stem cell research, 2017
» Therapy for sepsis
» Curcumin, A bioactive component of turmeric treats cancer
» Embryo transfer technology
to increase livestock productivity
» "SOHUM" an indigenously developed newborn hearing screening device
» Kyasanur forest disease or monkey fever developed
» India Declared Maternal and Neonatal Telanus, H5N1 and Yaws Free
» Mission Indradhanush
New TB Drug Regimen

