Ap Environmental Science Chapter 19

Ap Environmental Science Chapter 19 Chapter 19 Biodiversity and Conservation I Biodiversity the variety of life on Earth is a complex and dynamic phenomenon It encompasses the diversity of species genes and ecosystems forming a web of interconnectedness that underpins the stability and resilience of our planet This chapter delves into the intricacies of biodiversity exploring its importance threats and the crucial role of conservation efforts II Defining and Measuring Biodiversity Biodiversity often referred to as biological diversity is measured at three hierarchical levels Genetic Diversity Variations within a species gene pool essential for adaptation and survival Species Diversity The number and abundance of different species in a given area Ecosystem Diversity The variety of habitats communities and ecological processes within a region Measuring biodiversity involves several methods including Species Richness The number of species present in a given area Species Evenness The relative abundance of each species in a community Shannon Index A widely used index that quantifies the diversity of a community considering both richness and evenness III The Importance of Biodiversity Biodiversity provides numerous ecological and economic benefits making it crucial for the wellbeing of both humans and the planet Ecosystem Services Biodiversity underpins the provision of essential ecosystem services such as pollination water purification climate regulation and soil fertility Food Security Diverse agricultural systems are more resistant to pests and diseases ensuring food production for a growing population Medicinal Resources Many pharmaceuticals are derived from natural sources highlighting the importance of biodiversity for medical advancements 2 Tourism and Recreation Rich biodiversity attracts tourists and provides opportunities for recreation contributing to local economies Ethical Responsibility Conserving biodiversity is a moral imperative as we have a responsibility to protect the diverse life forms that share our planet IV Threats to Biodiversity Human activities are exerting significant pressure on biodiversity leading to its decline at an alarming rate Habitat Loss and Fragmentation Deforestation urbanization and agricultural expansion are the primary drivers of habitat loss isolating populations and reducing their resilience Climate Change Shifting temperature and precipitation patterns rising sea levels and increased extreme weather events threaten ecosystems and species survival Pollution Air water and soil pollution from industrial activities agriculture and urban runoff degrade habitats and disrupt ecological processes Overexploitation Unsustainable harvesting of resources like fish

timber and wildlife leads to population declines and ecosystem imbalances Invasive Species The introduction of nonnative species can disrupt food webs outcompete native species and alter ecosystem dynamics V Conservation Strategies Addressing the threats to biodiversity requires a multifaceted approach incorporating both insitu and exsitu conservation strategies Insitu Conservation Protecting biodiversity within its natural habitat through Protected Areas Establishing national parks wildlife refuges and other protected areas to preserve ecosystems and species Habitat Restoration Restoring degraded habitats to their natural state allowing biodiversity to recover Sustainable Management Managing resources sustainably to ensure longterm ecological integrity Exsitu Conservation Conserving biodiversity outside its natural habitat through Zoos and Botanical Gardens Breeding endangered species in captivity to increase their populations and reintroduce them into the wild Gene Banks Storing seeds sperm and other genetic material to safeguard biodiversity Captive Breeding Programs Breeding endangered species in controlled environments to boost their numbers and maintain genetic diversity 3 VI The Role of Environmental Policy Effective conservation requires strong policy frameworks that Regulate Human Activities Implement laws and regulations to control pollution habitat destruction and unsustainable resource use Protect Endangered Species Establish legal protections for threatened and endangered species including habitat conservation and trade restrictions Promote Sustainable Practices Encourage environmentally friendly practices in agriculture forestry and other sectors Foster International Cooperation Facilitate collaboration between nations to address transboundary threats to biodiversity VII Individual Actions for Biodiversity Conservation Every individual can play a role in protecting biodiversity Reduce Consumption Minimize your environmental footprint by reducing consumption reusing items and recycling Support Sustainable Businesses Choose products and services from companies committed to environmental sustainability Advocate for Change Engage in policy discussions and support conservation organizations advocating for biodiversity protection Educate Yourself and Others Learn about biodiversity its threats and conservation strategies to promote awareness and action VIII Conclusion Biodiversity is the foundation of our planets health and wellbeing Its conservation is a pressing challenge requiring a collective effort to address the multifaceted threats it faces Through a combination of policy frameworks scientific advancements and individual actions we can secure a future where biodiversity thrives ensuring the resilience of our planet and the wellbeing of all life forms

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our environmental problems are huge and they require careful attention and action the twenty first century will be a crucial time in human history a time when we must find solutions that allow people on all parts of our planet to live in a clean healthy environment and have the resources they need for a good life p 5

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encounter as citizens professionals and consumers

environmental sciences is a vast and multidisciplinary science that involves the study of natural resources of land water and air introduction to environmental sciences comprehensively covers numerous aspects of this vast subject while some chapters focus the causes of environmental problems others discuss methods and ways of mitigating these causes

syllabus 1 fundamentals of environmental sciences definition principles and scope of environmental science structure and composition of atmosphere hydrosphere lithosphere and biosphere interaction between earth man and environment 2 energy and material dynamics laws of thermodynamics heat transfer processes mass and energy transfer across various interfaces material balance meteorological parameters pressure temperature precipitation humidity mixing ratio saturation mixing ratio radiation and wind velocity adiabatic lapse rate environmental lapse rate wind roses 3 global environmental context and resources biogeographic provinces of the world and agro climatic zones of india concept of sustainable development natural resources and their assessment 4 geospatial techniques and environmental awareness remote sensing and gis principles of remote sensing and gis digital image processing and ground truthing application of remote sensing and gis in land cover land use planning and management urban sprawling vegetation study forestry natural resource waste management and climate change environmental education and awareness environmental ethics 5 core chemical principles in environment fundamentals of environmental chemistry classification of elements stoichiometry gibbs energy chemical potential chemical kinetics chemical equilibria solubility of gases in water the carbonate system unsaturated and saturated hydrocarbons radioisotopes composition of air particles ions and radicals in the atmosphere chemical speciation 6 atmospheric and aquatic chemistry chemical processes in the formation of inorganic and organic particulate matters thermochemical and photochemical reactions in the atmosphere oxygen and ozone chemistry photochemical smog hydrological cycle water as a universal solvent concept of do bod and cod sedimentation coagulation flocculation filtration ph and redox potential eh 7 soil chemistry and toxicology inorganic and organic components of soils biogeochemical cycles nitrogen carbon phosphorus and sulphur toxic chemicals pesticides and their classification and effects biochemical aspects of heavy metals hg cd pb cr and metalloids as se co o3 pan voc and pop carcinogens in the air 8 analytical techniques in environmental chemistry principles of analytical methods titrimetry gravimetry bomb calorimetry chromatography paper chromatography tlc gc and hplc flame photometry spectrophotometry uv vis aas icp aes icp ms electrophoresis xrf xrd nmr ftir gc ms sem tem 9 foundations of ecology and

ecosystems ecology as an inter disciplinary science origin of life and speciation human ecology and settlement ecosystem structure biotic and abiotic components and functions energy flow in ecosystems energy flow models food chains and food webs biogeochemical cycles ecological succession 10 ecosystem diversity and stability species diversity concept of ecotone edge effects ecological habitats and niche ecosystem stability and factors affecting stability ecosystem services basis of ecosystem classification and types of ecosystem desert hot and cold forest rangeland wetlands lotic lentic estuarine mangrove oceanic 11 biomes and population dynamics biomes concept classification and distribution characteristics of different biomes tundra taiga grassland deciduous forest biome highland icy alpine biome chapparal savanna tropical rain forest population ecology characteristics of population concept of carrying capacity population growth and regulations population fluctuations dispersion and metapopulation concept of r and k species keystone species 12 community ecology and biodiversity conservation community ecology definition community concept types and interaction predation herbivory parasitism and allelopathy biological invasions biodiversity and its conservation definition types importance of biodiversity and threats to biodiversity concept and basis of identification of hotspots hotspots in india measures of biodiversity strategies for biodiversity conservation in situ ex situ and in vitro conservation national parks sanctuaries protected areas and sacred groves in india concepts of gene pool biopiracy and bio prospecting 13 applied ecology and environmental health concept of restoration ecology extinct rare endangered and threatened flora and fauna of india concept of industrial ecology toxicology and microbiology absorption distribution and excretion of toxic agents acute and chronic toxicity concept of bioassay threshold limit value margin of safety therapeutic index biotransformation major water borne diseases and air borne microbes environmental biotechnology bioremediation definition types and role of plants and microbes for in situ and ex situ remediation bioindicators biofertilizers biofuels and biosensors 14 earth s origin and structure origin of earth primary geochemical differentiation and formation of core mantle crust atmosphere and hydrosphere concept of minerals and rocks formation of igneous and metamorphic rocks controls on formation of landforms tectonic including plate tectonic and climatic 15 earth s climate systems and dynamics concept of steady state and equilibrium energy budget of the earth earth s thermal environment and seasons coriolis force pressure gradient force frictional force geo strophic wind field gradient wind climates of india western disturbances indian monsoon droughts el nino la nina concept of residence time and rates of natural cycles geophysical fields 16 geoprocesses and soil science weathering including weathering reactions erosion transportation and deposition of sediments soil forming minerals and process of soil formation identification and characterization of clay minerals soil physical and chemical properties soil types and climate control on soil formation

cation exchange capacity and mineralogical controls geochemical classification of elements abundance of elements in bulk earth crust hydrosphere and biosphere partitioning of elements during surficial geologic processes geochemical recycling of elements paleoclimate 17 hydrogeology resources and hazards distribution of water in earth hydrology and hydrogeology major basins and groundwater provinces of india darcy s law and its validity groundwater fluctuations hydraulic conductivity groundwater tracers land subsidence effects of excessive use of groundwater groundwater quality pollution of groundwater resources ghyben herzberg relation between fresh saline water natural resource exploration and exploitation and related environmental concerns historical perspective and conservation of non renewable resources natural hazards catastrophic geological hazards floods landslides earthquakes volcanism avalanche tsunami and cloud bursts prediction of hazards and mitigation of their impacts 18 energy sources solar and fossil fuels sun as source of energy solar radiation and its spectral characteristics fossil fuels classification composition physico chemical characteristics and energy content of coal petroleum and natural gas shale oil coal bed methane gas hydrates gross calorific value and net calorific value 19 renewable and nuclear energy technologies principles of generation of hydro power tidal energy ocean thermal energy conversion wind power geothermal energy solar energy solar collectors photo voltaic modules solar ponds nuclear energy fission and fusion nuclear fuels nuclear reactor principles and types bioenergy methods to produce energy from biomass 20 environmental impacts of energy use environmental implications of energy use energy use pattern in india and the world emissions of co2 in developed and developing countries including india radiative forcing and global warming impacts of large scale exploitation of solar wind hydro and nuclear energy sources 21 air pollution sources monitoring and impacts air pollution sources and types of pollutants natural and anthropogenic sources primary and secondary pollutants criteria air pollutants sampling and monitoring of air pollutants gaseous and particulates period frequency and duration of sampling principles and instruments for measurements of i ambient air pollutants concentration and ii stack emissions indian national ambient air quality standards impact of air pollutants on human health plants and materials acid rain 22 air pollutant dispersion and control dispersion of air pollutants mixing height depth lapse rates gaussian plume model line source model and area source model control devices for particulate matter principle and working of settling chamber centrifugal collectors wet collectors fabric filters and electrostatic precipitator control of gaseous pollutants through adsorption absorption condensation and combustion including catalytic combustion indoor air pollution vehicular emissions and urban air quality 23 noise pollution measurement and control noise pollution sources weighting networks measurement of noise indices leq l10 l90 l50 ldn tni noise dose and noise pollution standards noise control and abatement measures active and

passive methods vibrations and their measurements impact of noise and vibrations on human health 24 water pollution quality standards and treatment water pollution types and sources of water pollution impact on humans plants and animals measurement of water quality parameters sampling and analysis for ph ec turbidity tds hardness chlorides salinity do bod cod nitrates phosphates sulphates heavy metals and organic contaminants microbiological analysis mpn indian standards for drinking water is 10500 2012 drinking water treatment coagulation and flocculation sedimentation and filtration disinfection and softening wastewater treatment primary secondary and advanced treatment methods common effluent treatment plant 25 soil thermal marine and radioactive pollution soil pollution physico chemical and biological properties of soil texture structure inorganic and organic components analysis of soil quality soil pollution control industrial effluents and their interactions with soil components soil micro organisms and their functions degradation of pesticides and synthetic fertilizers thermal pollution sources of thermal pollution heat islands causes and consequences marine pollution sources and impact of marine pollution methods of abatement of marine pollution coastal management radioactive pollution sources biological effects of ionizing radiations radiation exposure and radiation standards radiation protection 26 solid waste characteristics and logistics solid waste types and sources solid waste characteristics generation rates solid waste components proximate and ultimate analyses of solid wastes solid waste collection and transportation container systems hauled and stationary layout of collection routes transfer stations and transportation 27 solid waste processing recovery and disposal solid waste processing and recovery recycling recovery of materials for recycling and direct manufacture of solid waste products electrical energy generation from solid waste fuel pellets refuse derived fuels composting and vermicomposting biomethanation of solid waste disposal of solid wastes sanitary land filling and its management incineration of solid waste 28 hazardous e waste fly ash and plastic waste management hazardous waste types characteristics and health impacts hazardous waste management treatment methods neutralization oxidation reduction precipitation solidification stabilization incineration and final disposal e waste classification methods of handling and disposal fly ash sources composition and utilisation plastic waste sources consequences and management 29 environmental assessment and management systems aims and objectives of environmental impact assessment eia environmental impact statement eis and environmental management plan emp eia guidelines impact assessment methodologies procedure for reviewing eia of developmental projects life cycle analysis costbenefit analysis guidelines for environmental audit environmental planning as a part of eia and environmental audit environmental management system standards iso14000 series 30 eia notification eco labeling and risk assessment eia notification 2006 and amendments from time to time eco labeling schemes risk assessment hazard identification hazard

accounting scenarios of exposure risk characterization and risk management 31 core environmental legislation in india overview of environmental laws in india constitutional provisions in india article 48a and 51a wildlife protection act 1972 amendments 1991 forest conservation act 1980 indian forest act revised 1982 biological diversity act 2002 water prevention and control of pollution act 1974 amended 1988 and rules 1975 air prevention and control of pollution act 1981 amended 1987 and rules 1982 environmental protection act 1986 and rules 1986 motor vehicle act 1988 32 specific waste management and safety rules in india the hazardous and other waste management and transboundary movement rules 2016 the plastic waste management rules 2016 the bio medical waste management rules 2016 the solid waste management rules 2016 the e waste management rules 2016 the construction and demolition waste management rules 2016 the manufacture storage and import of hazardous chemical amendment rules 2000 the batteries management and handling rules 2010 with amendments the public liability insurance act 1991 and rules 1991 noise pollution regulation and control rules 2000 coastal regulation zones crz 1991 amended from time to time 33 national environmental policies and international agreements national forest policy 1988 national water policy 2002 national environmental policy 2006 environmental conventions and agreements stockholm conference on human environment 1972 montreal protocol 1987 conference of parties cops basel convention 1989 1992 ramsar convention on wetlands 1971 earth summit at rio de janeiro 1992 agenda 21 global environmental facility gef convention on biodiversity 1992 unfccc kyoto protocol 1997 clean development mechanism cdm earth summit at johannesburg 2002 rio 20 un summit on millennium development goals 2000 copenhagen summit 2009 ipcc unep igbp 34 statistical fundamentals in environmental science attributes and variables types of variables scales of measurement measurement of central tendency and dispersion standard error moments measure of skewness and kurtosis basic concept of probability theory sampling theory 35 statistical distributions and hypothesis testing distributions normal log normal binomial poisson t 2 chi square and f distribution correlation regression tests of hypothesis t test 2 test anova one way and two way significance and confidence limits 36 environmental modelling approaches approaches to development of environmental models linear simple and multiple regression models validation and forecasting models of population growth and interactions lotka voltera model leslie s matrix model 37 global environmental challenges and national action plans global environmental issues biodiversity loss climate change ozone layer depletion sea level rise international efforts for environmental protection national action plan on climate change eight national missions national solar mission national mission for enhanced energy efficiency national mission on sustainable habitat national water mission national mission for sustaining the himalayan ecosystem national mission for a green india national mission for sustainable agriculture national mission on strategic knowledge for climate

change 38 key environmental issues and conservation efforts in india current environmental issues in india environmental issues related to water resource projects narmada dam tehri dam almatti dam cauvery and mahanadi hydro power projects in jammu kashmir himachal and north eastern states water conservation development of watersheds rain water harvesting and ground water recharge national river conservation plan namami gange and yamuna action plan eutrophication and restoration of lakes conservation of wetlands ramsar sites in india soil erosion reclamation of degraded land desertification and its control climate change adaptability energy security food security and sustainability 39 conservation movements wildlife projects and sustainable practices in india forest conservation chipko movement appiko movement silent valley movement and gandhamardhan movement people biodiversity register wild life conservation projects project tiger project elephant crocodile conservation goi undp sea turtle project indo rhino vision carbon sequestration and carbon credits waste management swachha bharat abhiyan sustainable habitat green building griha rating norms vehicular emission norms in india 40 environmental health issues and major disasters epidemiological issues fluorosis arsenocosis goitre dengue environmental disasters minnamata disaster love canal disaster bhopal gas disaster 1984 chernobyl disaster 1986 fukusima daiichi nuclear disaster 2011

formally established by the epa nearly 15 years ago the concept of green chemistry is beginning to come of age although several books cover green chemistry and chemical engineering none of them transfer green principles to science and technology in general and their impact on the future defining industrial ecology environmental science and tec

at just 15 chapters essentials of environmental science is ideal for a one semester course it takes the same non biased approach as its parent text teaching students to think critically about data presented in addition to being briefer essentials is even more accessible placing less emphasize on math calculations the coverage of ecology agriculture energy and water has also been streamlined to provide a more focused treatment of the science concepts

revolving around the principles of sustainability this new edition sets out to provide students with a balanced complete treatment of environmental issues their scientific basis history and future material is revised to reflect changing environmental understanding and issues

completely updated the eighth edition of environmental science enlightens students on the fundamental causes of the current environmental crisis and offers ideas on how we as a global community can create a sustainable future

environmental science inspires and equips students to make a difference for the world featuring sustainability as their central theme authors tyler miller and scott spoolman emphasize natural capital natural capital degradation solutions trade offs and the importance of individuals as a result students learn how nature works how they interact with it and how they can use various scientific principles based on how nature has sustained life on the earth for billions of years to live more sustainably engaging features like core case studies and connections boxes demonstrate the relevance of issues and encourage critical thinking updated with new learning tools the latest content and an enhanced art program this highly flexible book allows instructors to vary the order of chapters and sections within chapters to meet the needs of their courses two new active learning features conclude each chapter doing environmental science offers project ideas based on chapter content that build critical thinking skills and integrate scientific method principles global environmental watch offers online learning activities through the global environment watch website helping students connect the book s concepts to current real world issues

spatial variability in environmental science patterns processes and analyses includes eight studies that examine the issue of spatial variability in four areas of the environmental sciences atmospheric science geological science biological science and landscape science the topics range from monitoring of wind the urban heat island and atmospheric pollution to coastal geomorphology landscape planning and forest ecology the problem of introduced species to regional ecologies and a technique to improve the identification of human constructions in semi natural landscapes a small volume can only offer a small glimpse at the activities of scientists and insights into environmental science but the array of papers herein offers a unique view of the current scholarship

the environment affects our health our food and water our politics and our economy what can you do to ensure that these effects are positive that question is a central theme for this book

introduction to environmental science provides a comprehensive and fully integrated interdisciplinary introduction to our planet covering the complex interactions between chemistry physics biology geology hydrology climatology social science and environmental policy

unlike any other introductory environmental science text robert kaufmann and cutler cleveland s environmental science takes a fresh approach to the subject by weaving themes of energy and materials economic systems and policy

throughout the entire text a story of real science is simply told through examples of cutting edge content real world applications and a distinctive conceptual illustration program

this comprehensively updated third edition explores the nature and role of environmental management and offers an introduction to this rapidly expanding and changing field it focuses on challenges and opportunities and core concepts including sustainable development the book is divided into five parts part i introduction to environmental management four introductory chapters cover the justification for environmental management its theory scope goals and scientific background part ii practice explores environmental management in economics law and business and environmental management s relation with environmentalism international agreements and monitoring part iii global challenges and opportunities examines resources challenges and opportunities both natural and human caused or human aggravated part iv responses to global challenges and opportunities explores mitigation vulnerability resilience adaptation and how technology social change and politics affect responses to challenges part v the future the final chapter considers the way ahead for environmental management in the future with its well structured coverage effective illustrations and foundation for further more focused interest this book is easily accessible to all it is an essential reference for undergraduates and postgraduates studying environmental management and sustainability and an important resource for many students on courses including environmental science environmental studies and human geography

environment the science behind the stories brief versionis an introductory textbook that uses case studies and real data to demonstrate the role of science in solving pressing environmental problems dynamic central case studies are integrated throughout each chapter capturing readers attention and providing them with a contextual framework on which to build their understanding of concepts in environmental science science behind the story boxes explain how scientists know what they know about environmental problems while opposing viewpoints on contentious environmental issues allow readers to hear both sides of the story with only 14 chapters the book f1 b f0 b0 avoids the encyclopedic approach of other textbooks on the market and instead offers only the essential concepts theories and principles of environmental science in particular the authors have condensed the material on environmental policy agriculture atmosphere and water providing the reader with the essential material they need in a more concise affordable format an introduction to environmental science environmental economics and policy chemistry energy and environmental systems ecology and evolution human population growth soils and agriculture toxicology and environmental health

atmospheric science air pollution and climate change marine and freshwater resources biodiversity and conservation biology land use forest management and creating livable cities nonrenewable energy sources and their environmental impacts renewable energy sources waste management for all readers interested in using case studies and real data to demonstrate the role of science in solving pressing environmental problems

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