

BIOLOGICAL DIVERSITY AND CONSERVATION WORKSHEET ANSWERS

BIOLOGICAL DIVERSITY AND CONSERVATION WORKSHEET ANSWERS BIOLOGICAL DIVERSITY AND CONSERVATION WORKSHEET ANSWERS BIOLOGICAL DIVERSITY OR BIODIVERSITY REFERS TO THE VARIETY OF LIFE ON EARTH THIS INCLUDES THE VAST ARRAY OF SPECIES THEIR GENES AND THE ECOSYSTEMS THEY INHABIT BIODIVERSITY IS ESSENTIAL FOR THE WELLBEING OF OUR PLANET AND HUMANITY PROVIDING US WITH FOOD CLEAN WATER MEDICINE AND COUNTLESS OTHER BENEFITS HOWEVER HUMAN ACTIVITIES ARE RAPIDLY ERODING BIODIVERSITY LEADING TO A GLOBAL CRISIS THIS WORKSHEET EXPLORES KEY CONCEPTS RELATED TO BIODIVERSITY AND CONSERVATION PROVIDING ANSWERS TO COMMON QUESTIONS AND HIGHLIGHTING THE URGENCY OF PROTECTING LIFE ON EARTH WORKSHEET ANSWERS 1 DEFINE BIODIVERSITY BIODIVERSITY ENCOMPASSES THE TOTAL VARIETY OF LIFE ON EARTH INCLUDING SPECIES DIVERSITY THE NUMBER AND ABUNDANCE OF DIFFERENT SPECIES IN A GIVEN AREA GENETIC DIVERSITY THE VARIATION IN GENES WITHIN A SPECIES PROVIDING ADAPTABILITY TO CHANGING ENVIRONMENTS ECOSYSTEM DIVERSITY THE VARIETY OF ECOSYSTEMS SUCH AS FORESTS GRASSLANDS AND OCEANS EACH SUPPORTING A UNIQUE SET OF SPECIES AND INTERACTIONS 2 LIST AND EXPLAIN THE IMPORTANCE OF THREE ECOSYSTEM SERVICES PROVIDED BY BIODIVERSITY POLLINATION MANY PLANTS RELY ON INSECTS BIRDS AND BATS FOR POLLINATION WITHOUT THESE POLLINATORS OUR FOOD SUPPLY WOULD BE SEVERELY THREATENED WATER PURIFICATION HEALTHY ECOSYSTEMS LIKE WETLANDS AND FORESTS FILTER AND PURIFY WATER PROVIDING US WITH CLEAN DRINKING WATER CLIMATE REGULATION ECOSYSTEMS ESPECIALLY FORESTS ABSORB CARBON DIOXIDE FROM THE ATMOSPHERE MITIGATING CLIMATE CHANGE 3 EXPLAIN THE THREATS TO BIODIVERSITY HABITAT LOSS AND DEGRADATION HUMAN ACTIVITIES SUCH AS DEFORESTATION AGRICULTURE AND URBAN SPRAWL ARE DESTROYING HABITATS AND FRAGMENTING ECOSYSTEMS ISOLATING POPULATIONS AND 2 REDUCING BIODIVERSITY POLLUTION CHEMICAL POLLUTANTS INCLUDING PESTICIDES FERTILIZERS AND INDUSTRIAL WASTE CONTAMINATE AIR WATER AND

SOIL HARMING ORGANISMS AND DISRUPTING ECOSYSTEMS Climate Change Global warming is altering weather patterns leading to extreme weather events rising sea levels and shifts in species ranges threatening many species with extinction Overexploitation Overfishing hunting and poaching have driven numerous species to the brink of extinction Invasive species introduced species can outcompete native species for resources disrupt food webs and cause ecological imbalances 4 Describe the different levels of biodiversity conservation **In situ** conservation Protecting species in their natural habitats This includes establishing national parks wildlife sanctuaries and protected areas **Ex situ** conservation Protecting species outside their natural habitats This involves captive breeding programs seed banks and botanical gardens 5 Explain the importance of genetic diversity in conservation efforts Genetic diversity is crucial for a species ability to adapt to changing environments Maintaining genetic diversity ensures that species have a wider range of genes providing them with the potential to cope with challenges like disease outbreaks climate change and habitat loss 6 Discuss the ethical implications of biodiversity loss The loss of biodiversity raises ethical concerns regarding our responsibility to other species and the future of the planet We have a moral obligation to protect the natural world and ensure the survival of other organisms as they have inherent value and contribute to the wellbeing of the planet 7 What are the economic consequences of biodiversity loss Biodiversity loss has significant economic impacts Loss of ecosystem services The decline in ecosystem services like pollination water purification and climate regulation translates to economic losses Reduced food security Loss of biodiversity threatens food production potentially leading to increased food prices and food shortages Decreased tourism revenue Intact ecosystems attract tourists providing income to local **3** communities 8 List three actions you can take to help conserve biodiversity Reduce your carbon footprint By using less energy and adopting sustainable practices you can contribute to mitigating climate change a major threat to biodiversity Support organizations dedicated to conservation Donate to conservation groups Volunteer your time and raise awareness about biodiversity issues Make informed consumer choices Choose

PRODUCTS THAT ARE SUSTAINABLY SOURCED AND AVOID PRODUCTS THAT CONTRIBUTE TO HABITAT DESTRUCTION POLLUTION OR OVEREXPLOITATION

9 EXPLAIN HOW CONSERVATION EFFORTS CAN BE INTEGRATED WITH SUSTAINABLE DEVELOPMENT CONSERVATION EFFORTS CAN BE INTEGRATED WITH SUSTAINABLE DEVELOPMENT BY FOCUSING ON SUSTAINABLE RESOURCE MANAGEMENT ENSURING THAT RESOURCES ARE USED SUSTAINABLY AND NOT DEPLETED PROMOTING ECOTOURISM SUPPORTING TOURISM THAT RESPECTS AND BENEFITS LOCAL ECOSYSTEMS INVESTING IN GREEN TECHNOLOGIES DEVELOPING AND ADOPTING TECHNOLOGIES THAT MINIMIZE ENVIRONMENTAL IMPACT 10 DISCUSS THE IMPORTANCE OF INTERNATIONAL COOPERATION IN BIODIVERSITY CONSERVATION BIODIVERSITY IS A GLOBAL ISSUE THAT REQUIRES INTERNATIONAL COOPERATION SHARING INFORMATION RESOURCES AND EXPERTISE ACROSS NATIONAL BORDERS IS ESSENTIAL FOR EFFECTIVELY ADDRESSING THREATS TO BIODIVERSITY AND IMPLEMENTING CONSERVATION STRATEGIES CONCLUSION BIODIVERSITY IS A CORNERSTONE OF OUR PLANETS HEALTH AND OUR OWN WELLBEING UNDERSTANDING THE THREATS TO BIODIVERSITY AND ENGAGING IN CONSERVATION EFFORTS ARE CRUCIAL STEPS TOWARDS PRESERVING LIFE ON EARTH BY TAKING ACTION WE CAN CREATE A FUTURE WHERE BOTH PEOPLE AND NATURE CAN THRIVE

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ALTHOUGH BIODIVERSITY IS A RELATIVELY NEW COINAGE SCIENTISTS HAVE BEEN STUDYING THE SUBJECT IT DESCRIBES LONG BEFORE THE WORD'S FIRST
APPEARANCE IN THE LANGUAGE IN THE MID 1980S IN 1973 FOR INSTANCE THE UK SYSTEMATICS ASSOCIATION HELD A SYMPOSIUM ON THE CHANGING
FLORA AND FAUNA OF BRITAIN WHICH CONCLUDED THAT NOT ENOUGH ATTENTION WAS BEING PAID TO THE CONSERVATION OF RARITIES A CONCLUSION
ALSO REACHED SAID THE SYMPOSIUM AT A MEETING OF THE LINNAEAN SOCIETY SOME FORTY YEARS EARLIER BY 1980 THE GLOBAL 2000 REPORT
TO THE PRESIDENT PUBLISHED BY THE US COUNCIL ON ENVIRONMENTAL QUALITY STARKLY WARNED OF A DIMINUTION OF UP TO ONE FIFTH OF ALL
SPECIES BY THE TURN OF THE CENTURY AND THERE IS NOW A GROWING CONSENSUS THAT THE WORLD FACES A BIODIVERSITY CRISIS A POTENTIALLY
CATASTROPHIC GLOBAL LOSS OF GENETIC ECOSYSTEM AND MOST OBVIOUSLY SPECIES DIVERSITY INDEED ESPECIALLY SINCE THE UN CONVENTION ON

BIOLOGICAL DIVERSITY WAS PROMULGATED IN RIO DE JANEIRO IN 1992 CONSERVING BIODIVERSITY HAS BECOME THE PRINCIPAL FOCUS OF THE GLOBAL CONSERVATION MOVEMENT INDEED THE STUDY OF THE ORIGINS MAINTENANCE AND PROTECTION OF DIVERSITY HAS BECOME PERHAPS THE MOST VIBRANT OFFSHOOT OF ECOLOGY AND CONSERVATION STUDIES IT IS INCREASINGLY TAUGHT AND STUDIED IN UNIVERSITIES AND OTHER RESEARCH INSTITUTIONS AROUND THE WORLD ADDRESSING THE NEED FOR AN AUTHORITATIVE REFERENCE WORK TO MAKE SENSE OF THIS RAPIDLY GROWING SUBJECT AND ITS EVER MORE COMPLEX AND MULTIDISCIPLINARY CORPUS OF SCHOLARLY LITERATURE BIODIVERSITY AND CONSERVATION IS A NEW TITLE IN THE ROUTLEDGE SERIES CRITICAL CONCEPTS IN THE ENVIRONMENT EDITED BY RICHARD LADLE OF OXFORD UNIVERSITY S CENTRE FOR THE ENVIRONMENT THIS NEW MAJOR WORK BRINGS TOGETHER IN FIVE VOLUMES THE FOUNDATIONAL AND THE VERY BEST CUTTING EDGE SCHOLARSHIP TO PROVIDE A SYNOPTIC VIEW OF ALL THE KEY ISSUES AND CURRENT DEBATES

BIODIVERSITY CONSERVATION AND HABITAT MANAGEMENT IS A COMPONENT OF ENCYCLOPEDIA OF NATURAL RESOURCES POLICY AND MANAGEMENT IN THE GLOBAL ENCYCLOPEDIA OF LIFE SUPPORT SYSTEMS EOLSS WHICH IS AN INTEGRATED COMPENDIUM OF TWENTY ONE ENCYCLOPEDIAS BIODIVERSITY IS DECLINING WORLDWIDE AT A VERY UNPRECEDENTED RATE AS A COMPLEX RESPONSE TO SEVERAL HUMAN INDUCED CHANGES IN THE GLOBAL ENVIRONMENT THE MAGNITUDE OF THESE CHANGES IS SO LARGE AND THEIR EFFECTS ARE SO STRONGLY LINKED TO THE ALTERED ECOSYSTEM PROCESSES AND TO HUMAN AB USE OF NATURAL RESOURCES THAT BIODIVERSITY LOSS IS TODAY PERCEIVED AS ONE OF THE MOST IMPORTANT ISSUES THAT HUMANKIND SHOULD FACE WITH EXTREME URGENCY DISSEMINATING INFORMATION RAISING AWARENESS AND PROPELLING CONCERN WITHIN A DIVERSIFIED TARGET AUDIENCE GENERAL PUBLIC SCHOOLS LOCAL AUTHORITIES AND GOVERNMENT AGENCIES ARE ALSO ESSENTIAL TO DEVELOP SHARED RESPONSIBILITY AND TO ENCOURAGE COLLABORATIVE EFFORTS AND COMPLIANCE THIS HAS BEEN THE MAIN OBJECTIVE OF BIODIVERSITY CONSERVATION AND HABITAT MANAGEMENT THE THEME ON BIODIVERSITY CONSERVATION AND HABITAT MANAGEMENT PROVIDES THE ESSENTIAL ASPECTS AND A MYRIAD OF ISSUES OF GREAT RELEVANCE TO OUR WORLD IN EIGHT MAJOR TOPICS OF DISCUSSION AND IS FOCUSED ON 1 HISTORY AND OVERVIEW OF BIODIVERSITY

CONSERVATION AND PROTECTED AREAS 2 MANAGEMENT OF FORESTS AND OTHER WOODED HABITATS 3 MANAGEMENT OF SAVANNAHS AND OTHER OPEN HABITATS 4 MANAGEMENT OF WETLANDS 5 MANAGEMENT OF TOURISM AND HUMAN RECREATION PRESSURE 6 CONSERVATION STRATEGIES SPECIES ACTION PLANS AND TRANSLOCATION 7 CAPTIVE BREEDING AND GENE BANKS AND 8 ERADICATION AND CONTROL OF INVASIVE SPECIES THESE TWO VOLUMES ARE AIMED AT THE FOLLOWING FIVE MAJOR TARGET AUDIENCES UNIVERSITY AND COLLEGE STUDENTS EDUCATORS PROFESSIONAL PRACTITIONERS RESEARCH PERSONNEL AND POLICY ANALYSTS MANAGERS AND DECISION MAKERS AND NGOS

THE GOAL OF THIS TRANSDISCIPLINARY BOOK IS TO IDENTIFY THE PROBLEMS AND CHALLENGES FACING IMPLEMENTATION OF THE CONVENTION ON BIOLOGICAL DIVERSITY CBD FROM THE GLOBAL REGIONAL AND LOCAL POINTS OF VIEW THE VALUATION AND CONSERVATION OF BIODIVERSITY ARE CRITICAL FIRST STEPS NECESSARY FOR THE ADEQUATE PROTECTION OF THE ENVIRONMENT THE AUTHORS GIVE INSIGHTS INTO THE THE INFLUENCES THE CBD EXERTS AND CURRENT TRENDS IN THE FIELD

LOSS OF BIOLOGICAL DIVERSITY THROUGH THE EXTINCTION OF SPECIES THE CONVERSION AND DEGRADATION OF NATURAL HABITATS AND THE DISRUPTION OF ECOLOGICAL PROCESSES IS OCCURRING THROUGHOUT THE WORLD AT AN UNPRECEDENTED RATE AS SPECIES AND THEIR HABITATS DISAPPEAR SO DO PRODUCTS OF PRESENT AND FUTURE VALUE GENES WITH WHICH TO IMPROVE CROP VARIETIES AND LIVESTOCK AND THE NATURAL RESILIENCIES OF THE WORLD S LIVING RESOURCES TO RESPOND TO CLIMATIC AND ENVIRONMENTAL CHANGE NOWHERE ELSE IS THE LOSS OF BIODIVERSITY EXPECTED TO BE HIGHER DURING THE COMING DECADES THAN IN THE ASIA PACIFIC REGION THE LOSS OF BIODIVERSITY IS IRREVERSIBLE RECOGNIZING THIS THE ASIA ENVIRONMENT DIVISION PREPARED THIS PAPER WHICH IS INTENDED TO IDENTIFY PRIORITY AREAS OF INVESTMENT IN THE ASIA PACIFIC REGION THE PAPER ACCEPTS THE IMPORTANCE OF BIODIVERSITY CONSERVATION AND SUGGESTS THAT POLICY CHANGE COUPLED WITH THE ESTABLISHMENT OF PROTECTED AREA SYSTEMS WILL BE CRITICAL TO SUCCESS A WIDE RANGE OF INTERVENTIONS WILL BE NEEDED TO SUPPORT THESE EFFORTS TOWARD CONSERVING BIODIVERSITY INTERVENTIONS INVOLVING NATIONAL AND LOCAL GOVERNMENTS NATIONAL AND INTERNATIONAL

NONGOVERNMENTAL ORGANIZATIONS AND MOST IMPORTANTLY LOCAL PEOPLE THE STRATEGY DEFINED IN THIS PAPER IS INTENDED TO COMPLEMENT EXISTING NATIONAL AND INTERNATIONAL INITIATIVES AND TO BUILD PARTNERSHIPS IN CONSERVATION FOR THE 1990s

THIS VOLUME PROVIDES AN ENLIGHTENING AND PRAGMATIC APPROACH TO PRESERVING BIOLOGICAL DIVERSITY BY GATHERING A WIDE RANGE OF PEER REVIEWED SCIENTIFIC CONTENT FROM BIODIVERSITY RESEARCHERS AND CONSERVATORS FROM AROUND THE WORLD IT BRINGS COMPREHENSIVE KNOWLEDGE AND INFORMATION ON THE PRESENT STATUS OF CONSERVATION OF BIOLOGICAL DIVERSITY INCLUDING FLORAL FAUNAL AND MICROBIAL DIVERSITY A DETAILED ACCOUNT OF RECENT TRENDS IN CONSERVATION AND APPLICATIONS UNDER CHANGING CLIMATE CONDITIONS FOCUSING MAINLY ON AGRICULTURALLY AND INDUSTRIALLY IMPORTANT MICROBES AND THEIR SUSTAINABLE UTILIZATION IS PRESENTED AS WELL OVER THE PAST FIVE DECADES EXTENSIVE RESEARCH WORK HAS BEEN DONE ON MANY ASPECTS OF BIODIVERSITY CONSERVATION AND SUSTAINABLE UTILIZATION OF BIOLOGICAL RESOURCES THIS BOOK EXAMINES THIS CRUCIAL ISSUE CHAPTERS DISCUSS BIODIVERSITY CONCEPTS BENEFITS AND VALUES FOR ECONOMIC AND SUSTAINABLE DEVELOPMENT EXPLORES APPLICATIONS AND STRATEGIES FOR BIODIVERSITY PRESERVATION AND CONSIDERS THE ROLE OF BIODIVERSITY CONSERVATION IN PUBLIC AWARENESS SERVICES AND CULTURAL SIGNIFICANCE THE VOLUME ALSO EXAMINES THE PROCESS OF EVOLUTION AND THE FUTURE OF BIODIVERSITY IN CONJUNCTION WITH CLIMATE CHANGE FACTORS WITH SPECIAL REFERENCE TO INFECTIOUS DISEASES

BIODIVERSITY AND ITS CONSERVATION ARE AMONG THE MAIN GLOBAL TOPICS IN SCIENCE AND POLITICS AND PERHAPS THE MAJOR CHALLENGE FOR THE PRESENT AND COMING GENERATIONS THIS BOOK WRITTEN BY INTERNATIONAL EXPERTS FROM DIFFERENT DISCIPLINES COMPRISSES GENERAL CHAPTERS ON DIVERSITY AND ITS MEASUREMENT HUMAN IMPACTS ON BIODIVERSITY HOTSPOTS ON A GLOBAL SCALE HUMAN DIVERSITY ITSELF AND VARIOUS GEOGRAPHIC REGIONS EXHIBITING HIGH LEVELS OF DIVERSITY THE AREAS COVERED RANGE FROM GENETICS AND TAXONOMY TO EVOLUTIONARY BIOLOGY BIOGEOGRAPHY AND THE SOCIAL SCIENCES IN ADDITION TO THE CLASSIC HOTSPOTS IN THE TROPICS THE BOOK ALSO HIGHLIGHTS VARIOUS OTHER ECOSYSTEMS HARBOURING UNIQUE SPECIES COMMUNITIES INCLUDING CORAL REEFS AND THE SOUTHERN OCEAN THE APPROACH TAKEN CONSIDERS BUT IS

NOT LIMITED TO THE ORIGINAL HOTSPOT DEFINITION SENSU STRICTO AND PRESENTS A CHAPTER INTRODUCING THE 35TH HOTSPOT THE FORESTS OF EAST AUSTRALIA WHILE DUE TO A BIAS IN DATA AVAILABILITY THE MAJORITY OF CONTRIBUTIONS ON PARTICULAR TAXA DEAL WITH VERTEBRATES AND PLANTS SOME ALSO DEAL WITH THE LESS STUDIED INVERTEBRATES THIS BOOK WILL BE ESSENTIAL READING FOR ANYONE INVOLVED WITH BIODIVERSITY PARTICULARLY RESEARCHERS AND PRACTITIONERS IN THE FIELDS OF CONSERVATION BIOLOGY ECOLOGY AND EVOLUTION

THIS BOOK REPORTS THE MORE POLICY ORIENTED RESULTS OF THE BIODIVERSITY PROGRAMME OF THE ROYAL SWEDISH ACADEMY OF SCIENCES BEIJER INSTITUTE THE PROGRAMME BROUGHT ECONOMISTS AND ECOLOGISTS TOGETHER TO CONSIDER WHERE THE PROBLEM IN BIODIVERSITY LOSS REALLY LIES WHAT COSTS IT HAS FOR SOCIETY AND HOW IT MIGHT BEST BE ADDRESSED THE RESULTS ARE STRIKINGLY DIFFERENT FROM THOSE REPORTED IN OTHER WORKS ON THE SUBJECT BIODIVERSITY LOSS MATTERS FOR ALL ECOSYSTEMS NOT JUST THE MEGADIVERSITY TROPICAL FORESTS AND IT MATTERS BECAUSE IT COMPROMISES THE RESILIENCE AND SO THE PRODUCTIVITY OF THOSE SYSTEMS BIODIVERSITY CONSERVATION REQUIRES THE DEVELOPMENT OF POLICIES THAT CHANGE THE BEHAVIOUR OF RESOURCE USE EVERYWHERE NOT JUST IN PARKS AND RESERVES THE BOOK IS REQUIRED READING FOR RESEARCHERS AND POLICY MAKERS ALIKE IT CANVASSES OPTIONS FOR THE REFORM OF PARK MANAGEMENT BIODIVERSITY CONSERVATION PROJECTS PROPERTY RIGHTS TAX TRADE AND PRICE REGIMES THAT ARE WITHIN THE REACH OF GOVERNMENTS EVERYWHERE

FORESTS PLAY IMPORTANT ROLE IN COMBATING DESERTIFICATION PREVENTING EROSION PROBLEMS OTHER PROTECTIVE FUNCTIONS CLIMATIC CHANGE AND ACTING AS CARBON RESERVOIRS AND SINKS FORESTS THE BIODIVERSITY THEY CONTAIN AND THE ECOLOGICAL FUNCTION THEY MAINTAIN ARE A HERITAGE OF MANKIND THE VITAL ROLE OF FORESTS IN PROTECTING FRAGILE ECOSYSTEMS WATERSHEDS AND FRESHWATER RESERVOIRS AND AS STOREHOUSES OF RICH BIODIVERSITY SHOULD BE RECOGNIZED FORESTS CONTAIN NOT ONLY WOODY SPECIES AND WILD ANIMALS BUT ALSO A WEALTH OF OTHER SPECIES OF ACTUAL OR POTENTIALLY SOCIO ECONOMIC IMPORTANCE AT THE GLOBAL NATIONAL AND LOCAL LEVELS INCLUDING WILD RELATIVES OF IMPORTANT CROP SPECIES BIODIVERSITY IS THE VARIETY AND VARIABILITY OF PLANT ANIMAL AND MICRO ORGANISM IN A ECOSYSTEM BIODIVERSITY IN WILD AND

DOMESTICATED FORMS IS THE SOURCE FOR MOST OF HUMANITY FOOD MEDICINE CLOTHING AND HOUSING MOST OF THE CULTURAL DIVERSITY AND MOST OF THE INTELLECTUAL AND SPIRITUAL INSPIRATIONS IN OTHER WORDS IT IS THE VERY BASIS OF MAN S BEING CURRENTLY THERE IS SEVERE AND WIDESPREAD LOSS OF BIODIVERSITY BECAUSE OF A VARIETY OF FACTORS AND THEREFORE ITS CONSERVATION IS OF UTMOST IMPORTANCE CONSERVATION AND DEVELOPMENT ARE PARTNERS IN THE PROCESS OF ENVIRONMENTAL PROTECTION TO MAINTAIN AND INCREASE THE ECOLOGICAL BIOLOGICAL CLIMATIC SOCIO CULTURAL AND ECONOMIC CONTRIBUTIONS OF FORESTS THEIR CONSERVATION AND MANAGEMENT ARE URGENTLY REQUIRED BIOLOGICAL DIVERSITY BIODIVERSITY IS ALSO TO BE PRESERVED TO ACHIEVE SUSTAINABLE DEVELOPMENT THE BOOK IS A SINCERE EFFORT OF THE AUTHORS TO PROVIDE COMPILED INFORMATION ON THE SUBJECT MATTER OF FOREST ENVIRONMENT AND DIVERSITY IT INCLUDES THE IMPACT OF FORESTS ON ENVIRONMENT BASIC CONCEPT STATUS AND EXTENT OF BIODIVERSITY ITS LOSS AND SUGGESTS WAYS AND MEANS OF CONSERVATION FOR ACHIEVING SUSTAINABLE DEVELOPMENT CONTENTS CHAPTER 1 INTRODUCTION CHAPTER 2 LAND USE FOREST AREA AND POPULATION CHAPTER 3 HISTORY OF FORESTRY IN INDIA CHAPTER 4 ECOLOGICAL PERCEPTIONS CHAPTER 5 ECOLOGY OF INDIAN FORESTS CHAPTER 6 FORESTS AND ENVIRONMENTS CHAPTER 7 ECOSYSTEM THEORY AND APPLICATION CHAPTER 8 FORESTS AND ENVIRONMENT SOIL EROSION AND FLOODS CHAPTER 9 WILDLIFE AND BIOSPHERE RESERVES CHAPTER 10 ATMOSPHERE CHAPTER 11 SOCIO ECONOMIC EFFECTS AND CONSTRAINTS CHAPTER 12 WOMEN AND ENVIRONMENT CHAPTER 13 MACRO ISSUES PRESSURE ON FORESTS CHAPTER 14 FORESTRY AND RURAL DEVELOPMENT CHAPTER 15 PEOPLES PARTICIPATION IN AFFORESTATION CHAPTER 16 ENVIRONMENTAL CONSIDERATIONS CHAPTER 17 THE ENVIRONMENTAL SCENARIO CHAPTER 18 ENVIRONMENTAL PROBLEMS CHAPTER 19 INTRODUCTION TO ENVIRONMENTAL IMPACT ASSESSMENT CHAPTER 20 METHODS OF IMPACT ANALYSIS CHAPTER 21 SOME CASE STUDIES OF ENVIRONMENTAL IMPACT ASSESSMENT CHAPTER 22 POLLUTION AN APPRAISAL CHAPTER 23 AIR POLLUTION CHAPTER 24 WATER POLLUTION CHAPTER 25 BIOLOGICAL DIVERSITY CHAPTER 26 MANAGEMENT OF FORESTS FOR WILDLIFE CHAPTER 27 CONSERVATION OF BIODIVERSITY CHAPTER 28 ACTION PLAN FOR NATIONAL BIODIVERSITY STRATEGY CHAPTER 29 SOCIAL BIOTA FOR BIODIVERSITY CHAPTER 30 BIODIVERSITY LOSS AND THREAT CHAPTER 31 BIOLOGICAL DIVERSITY CONVENTION CHAPTER 32 CONSERVATION OF BIODIVERSITY IN INDIAN SCENARIO

CHAPTER 33 DIVERSITY IN COMMUNITY CHAPTER 34 BIORESOURCES PROTECTION CHAPTER 35 BIODIVERSITY OF THREATENED SPECIES OF MEDICINAL PLANTS IN INDIA AN APPRAISAL CHAPTER 36 VEGETATIVE PROPAGATION CHAPTER 37 TREE IMPROVEMENT THROUGH BIOTECHNOLOGICAL TOOLS CHAPTER 38 FOREST RESOURCES AND ITS MANAGEMENT CHAPTER 39 PRODUCTION AND RECEIPT OF FOREST PRODUCTS C

AT THE RIO EARTH SUMMIT IN 1992 THE NATIONS OF THE WORLD ADOPTED THE CONVENTION ON BIOLOGICAL DIVERSITY SINCE THEN OVER 160 COUNTRIES HAVE RATIFIED THE CONVENTION THREE CONFERENCES OF THE PARTIES HAVE TAKEN PLACE AND A PERMANENT SECRETARIAT HAS BEEN ESTABLISHED DESPITE THIS THERE REMAINS A LOT OF UNCERTAINTY AND EVEN MORE CONTROVERSY ABOUT WHAT THE CONVENTION WAS INTENDED TO ACCOMPLISH AND HOW IT WAS TO DO SO THIS BOOK PUBLISHED IN ASSOCIATION WITH THE IUCN THE WORLD CONSERVATION UNION SETS OUT TO ANSWER SOME OF THESE QUESTIONS BY RECOUNTING THE HISTORY OF THE MOVEMENTS LEADING UP TO THE CONVENTION BUT ESPECIALLY BY ANALYSING THE FORCES GIVING RISE TO THE PROBLEM IT PROVIDES A SPECIFIC SET OF POLICY PRESCRIPTIONS INTENDED TO FACILITATE THE DEVELOPMENT OF INSTITUTIONS AND OBLIGATIONS WITHIN THE INTERNATIONAL COMMUNITY WHICH WILL GIVE REAL EFFECT TO THE ASPIRATIONS OF THE CONVENTION AND TO ENSURE THAT IT HAS SOME REAL EFFECT AT GROUND LEVEL THE AUTHOR BEGINS WITH AN OVERVIEW OF THE ISSUES AND THEN DEVELOPS THE BASIC NATURE OF THE PROBLEMS WITHIN A BIO ECONOMIC FRAMEWORK HE HIGHLIGHTS THE GAPS IN THE CONVENTION WHICH REMAIN TO BE FILLED OFFERS DETAILED EXPLANATIONS OF THE CONCEPTS INVOLVED AND DESCRIBES THE NATURE OF THE SOLUTIONS REQUIRED THUS HE SETS OUT A DETAILED PLAN FOR GLOBAL ACTION IN SUPPORT OF AN EFFECTIVE INTERNATIONAL CONVENTION FOR THE CONSERVATION OF BIOLOGICAL DIVERSITY THE BOOK IS AN EXCELLENT INTRODUCTION TO A VERY TOPICAL DEBATE AND A VALUABLE REFERENCE POINT FOR CONSERVATIONISTS POLICY MAKERS AND STUDENTS OF DEVELOPMENT STUDIES ENVIRONMENTAL STUDIES ENVIRONMENTAL POLICY AND CONSERVATION BIOLOGY

AS THE IMPACTS OF ANTHROPOGENIC ACTIVITIES INCREASE IN BOTH MAGNITUDE AND EXTENT BIODIVERSITY IS COMING UNDER INCREASING PRESSURE SCIENTISTS AND POLICY MAKERS ARE FREQUENTLY HAMPERED BY A LACK OF INFORMATION ON BIOLOGICAL SYSTEMS PARTICULARLY INFORMATION

RELATING TO LONG TERM TRENDS SUCH INFORMATION IS CRUCIAL TO DEVELOPING AN UNDERSTANDING AS TO HOW BIODIVERSITY MAY RESPOND TO GLOBAL ENVIRONMENTAL CHANGE KNOWLEDGE GAPS MAKE IT VERY DIFFICULT TO DEVELOP EFFECTIVE POLICIES AND LEGISLATION TO REDUCE AND REVERSE BIODIVERSITY LOSS THIS BOOK EXPLORES THE GAP BETWEEN GLOBAL COMMITMENTS TO BIODIVERSITY CONSERVATION AND LOCAL ACTION TO TRACK BIODIVERSITY CHANGE AND IMPLEMENT CONSERVATION ACTION HIGH PROFILE INTERNATIONAL POLITICAL COMMITMENTS TO IMPROVE BIODIVERSITY CONSERVATION SUCH AS THE TARGETS SET BY THE CONVENTION ON BIOLOGICAL DIVERSITY REQUIRE INNOVATIVE AND RAPID RESPONSES FROM BOTH SCIENCE AND POLICY THIS MULTI DISCIPLINARY PERSPECTIVE HIGHLIGHTS BARRIERS TO CONSERVATION AND OFFERS NOVEL SOLUTIONS TO EVALUATING TRENDS IN BIODIVERSITY AT MULTIPLE SCALES

THIS VOLUME IS ONE OF A NUMBER OF PUBLICATIONS TO CARRY THE RESULTS OF THE FIRST RESEARCH PROGRAMME OF THE ROYAL SWEDISH ACADEMY OF SCIENCE S BEIJER INSTITUTE THE INSTITUTE WAS FORMED IN 1991 IN ORDER TO PROMOTE INTERDISCIPLINARY RESEARCH BETWEEN NATURAL AND SOCIAL SCIENTISTS ON THE INTERDEPENDENCY BETWEEN ECONOMIC AND ECOLOGICAL SYSTEMS IN ITS FIRST RESEARCH PROGRAMME THE BIODIVERSITY PROGRAMME THE INSTITUTE BROUGHT TOGETHER A NUMBER OF LEADING ECONOMISTS AND ECOLOGISTS TO ADDRESS THE THEORETICAL AND POLICY ISSUES ASSOCIATED WITH THE CURRENT HIGH RATES OF BIODIVERSITY LOSS IN SUCH SYSTEMS WHETHER THE RESULT OF DIRECT DEPLETION THE DESTRUCTION OF HABITAT OR SPECIALISATION IN AGRICULTURE FORESTRY AND FISHERIES L THIS VOLUME REPORTS SOME OF THE MORE POLICY ORIENTED WORK CARRIED OUT UNDER THE PROGRAMME THE BROAD AIM OF THE PROGRAMME IS TO FURTHER OUR UNDERSTANDING OF THE CAUSES AND CONSEQUENCES OF BIODIVERSITY LOSS AND TO IDENTIFY THE OPTIONS FOR ADDRESSING THE PROBLEM THE RESULTS HAVE TURNED OUT TO BE SURPRISING TO THOSE WHO SEE BIODIVERSITY LOSS PRIMARILY IN TERMS OF THE EROSION OF THE GENETIC LIBRARY IN VARIOUS WAYS THE WORK CARRIED OUT UNDER THE PROGRAMME HAS ALREADY BEGUN TO ALTER OUR PERCEPTION OF WHERE THE PROBLEM IN BIODIVERSITY LOSS LIES AND WHAT POLICY OPTIONS ARE AVAILABLE TO DEAL WITH IT INDEED THE PROGRAMME HAS PROVIDED A POWERFUL SET OF ARGUMENTS FOR REAPPRAISING NOT

JUST THE ECONOMIC AND ECOLOGICAL IMPLICATIONS OF BIODIVERSITY LOSS BUT THE WHOLE CASE FOR DEVELOPMENT BASED ON SPECIALISATION OF RESOURCE USE

BIOLOGICAL DIVERSITY IS IMPORTANT FOR ECOSYSTEM FUNCTION AND SERVICES WHICH IN TURN IS ESSENTIAL FOR HUMAN WELL BEING UNDER THE CONVENTION ON BIOLOGICAL DIVERSITY INTERNATIONAL EFFORTS HAVE BEEN MADE TO ACHIEVE A SIGNIFICANT REDUCTION IN THE CURRENT RATE OF BIODIVERSITY LOSS THE LOSS CONTINUES HOWEVER THE ASIA PACIFIC REGION INCLUDES BOTH DEVELOPING COUNTRIES WITH HIGH BIODIVERSITY AND DEVELOPED COUNTRIES WITH SOPHISTICATED DATA COLLECTION AND ANALYSES BUT ONLY LIMITED INFORMATION ABOUT THE STATUS QUO OF BIODIVERSITY IN THIS REGION HAS BEEN AVAILABLE MANY ASIA PACIFIC COUNTRIES HAVE RAPIDLY GROWN THEIR ECONOMIES AND SOCIAL INFRASTRUCTURES CAUSING A LOSS OF BIODIVERSITY AND REQUIRING AN URGENT MANDATE TO ACHIEVE A BALANCE BETWEEN DEVELOPMENT AND CONSERVATION IN THE REGION IN DECEMBER 2009 SCIENTISTS SUCCESSFULLY ORGANIZED THE ASIA PACIFIC BIODIVERSITY OBSERVATION NETWORK IN THE REGION TO ESTABLISH A NETWORK FOR RESEARCH AND MONITORING OF ECOSYSTEMS AND BIODIVERSITY AND TO BUILD A COOPERATIVE FRAMEWORK THE PRESENT VOLUME IS THE FIRST COLLECTION OF INFORMATION ON BIODIVERSITY IN THE ASIA PACIFIC AND REPRESENTS A QUANTUM STEP FORWARD IN SCIENCE THAT OPTIMIZES THE SYNERGY BETWEEN DEVELOPMENT AND BIODIVERSITY CONSERVATION

SOUTHEAST ASIA IS HIGHLY DIVERSIFIED IN TERMS OF SOCIO ECOSYSTEMS AND BIODIVERSITY BUT IS UNDERGOING DRAMATIC ENVIRONMENTAL AND SOCIAL CHANGES THESE CHANGES CHARACTERIZE THE RECENT PERIOD AND CAN BE ILLUSTRATED BY THE EFFECTS OF THE GREEN REVOLUTION IN THE LATE 1960s AND 1970s TO THE GLOBALIZATION OF TRADE AND INCREASING AGRONOMIC INTENSIFICATION OVER THE PAST DECADE BIODIVERSITY CONSERVATION IN SOUTHEAST ASIA PROVIDES THEORETICAL OVERVIEWS AND CHALLENGES FOR APPLIED RESEARCH IN LIVING RESOURCE MANAGEMENT CONSERVATION ECOLOGY HEALTH ECOLOGY AND CONSERVATION PLANNING IN SOUTHEAST ASIA FIVE KEY THEMES ARE ADDRESSED ORIGIN AND EVOLUTION OF SOUTHEAST ASIAN BIODIVERSITY CHALLENGES IN CONSERVATION BIOLOGY ECOSYSTEM SERVICES AND BIODIVERSITY MANAGING

BIODIVERSITY AND LIVING RESOURCES POLICY ECONOMICS AND GOVERNANCE OF BIODIVERSITY DETAILED CASE STUDIES ARE INCLUDED FROM THAILAND AND THE LOWER MEKONG BASIN WHILE OTHER CHAPTERS ADDRESS CROSS CUTTING THEMES APPLICABLE TO THE WHOLE SOUTHEAST ASIA REGION THIS IS A VALUABLE RESOURCE FOR ACADEMICS AND STUDENTS IN THE AREAS OF ECOLOGY CONSERVATION ENVIRONMENTAL POLICY AND MANAGEMENT SOUTHEAST ASIAN STUDIES AND SUSTAINABLE DEVELOPMENT

THIS IMPORTANT BOOK HIGHLIGHTS THE CONFLICTS BETWEEN ECONOMIC GROWTH AND THE CONSERVATION OF NATURE IN THE CONTEXT OF SUSTAINABLE DEVELOPMENT IT PLACES PARTICULAR EMPHASIS ON BIOLOGICAL DIVERSITY AND EXAMINES POSSIBLE POLICIES FOR RESOLVING CONFLICTS WHICH ARISE FROM THE CONTRASTING GOALS OF CONSERVING THE NATURAL ENVIRONMENT AND ECONOMIC GROWTH THE BOOK OPENS WITH AN OVERVIEW OF THE CHALLENGES OF ECONOMICS NATURE CONSERVATION AND SUSTAINABLE DEVELOPMENT AND GOES ON TO DISCUSS GENERAL PRINCIPLES AND BROAD POLICIES CASE STUDIES FROM CHINA AND NORTH EAST INDIA HELP ILLUSTRATE IMPORTANT ECONOMIC AND SOCIAL PRINCIPLES INVOLVED IN NATURE CONSERVATION GENERAL ISSUES EXAMINED INCLUDE THE VALUE OF ENVIRONMENTAL AND RESOURCE ECONOMICS IN PLANNING SUSTAINABLE DEVELOPMENT THE IMPORTANCE OF BIODIVERSITY CONSERVATION FOR SUSTAINABLE DEVELOPMENT AND FOR THE STABILITY AND SUSTAINABILITY OF ECOLOGICAL SYSTEMS THE IMPACT OF ECONOMIC GLOBALIZATION AND MARKET SYSTEMS ON THE CONSERVATION OF NATURE PRIORITIES FOR THE FINANCIAL SUPPORT OF PROTECTED AREAS THE EXTENT TO WHICH ECOTOURISM CAN BE HARNESSSED TO RECONCILE ECONOMIC UTILISATION OF AN AREA WITH NATURE CONSERVATION THE COSTS AND BENEFITS OF CONSERVATION FINANCING THE MANAGEMENT OF NATURE RESERVES THIS BOOK WILL BE ESSENTIAL READING FOR ECONOMISTS INTERESTED IN THE ENVIRONMENT ECOLOGY AND DEVELOPMENT

IUCN S 5TH WORLD PARKS CONGRESS 2003 CONCLUDED THAT PARKS SHOULD NOT EXIST AS UNIQUE ISLANDS BUT NEED TO BE PLANNED AND MANAGED AS AN INTEGRAL PART OF THE BROADER LANDSCAPE ECOLOGICAL NETWORKS PROVIDE AN OPERATIONAL MODEL FOR CONSERVING BIODIVERSITY THAT IS BASED ON ECOLOGICAL PRINCIPLES AND ALLOW A DEGREE OF HUMAN USE OF THE LANDSCAPE THIS PUBLICATION ILLUSTRATES THE

DEVELOPMENT OF SEVERAL ECOLOGICAL NETWORKS AROUND THE WORLD DEMONSTRATING THEIR BENEFITS BOTH FOR CONSERVATION AND SUSTAINABLE DEVELOPMENT

THIS BOOK BIODIVERSITY CONSERVATION AND UTILIZATION IN A DIVERSE WORLD SEES BIODIVERSITY AS MANAGEMENT AND UTILIZATION OF RESOURCES IN SATISFYING HUMAN NEEDS IN MULTI SECTIONAL AREAS INCLUDING AGRICULTURE FORESTRY FISHERIES WILDLIFE AND OTHER EXHAUSTIBLE AND INEXHAUSTIBLE RESOURCES ITS VALUE IS TO FULFILL ACTUAL HUMAN PREFERENCES AND VARIABILITY OF LIFE IS MEASURED BY AMOUNT OF GENETIC VARIATION AVAILABLE IN VIEWING DIVERSITY AS AN ULTIMATE MORAL VALUE ONE IS FACED WITH A SITUATION IN ENVIRONMENTAL PRESERVATION IN ORDER TO ALLOW COMPONENTS OF TOTAL DIVERSITY TO FLOURISH AND CONSTITUTE A THREAT TO CONTINUOUS EXISTENCE AND DECREASE TOTAL DIVERSITY THE OVERALL IMPORTANCE DESCRIBED ECONOMIC BENEFITS FROM BIO DIVERSITY THOUGH DIFFICULT TO MEASURE AND VARYING BUT ARE LIMITED ON A LOCAL SCALE INCREASE ON A REGIONAL OR NATIONAL SCALE AND BECOME POTENTIALLY SUBSTANTIAL ON A TRANSNATIONAL OR GLOBAL SCALE

BIODIVERSITY HAS NOW BECOME A MULTIDISCIPLINARY SUBJECT IN WHICH CONCEPTS IDEAS AND METHODOLOGIES HAVE BEEN CONTRIBUTED BY A NUMBER OF OTHER DISCIPLINES THIS BOOK PRESENTS THE CONCEPTS THEMES AND IDEAS ON THIS EVER GROWING MULTI DISCIPLINARY SUBJECT CONTENTS BIODIVERSITY SCIENCE DEFINITION SCOPE AND CONSTRAINTS GENETIC DIVERSITY SPECIES DIVERSITY WILD TAXA AGROBIODIVERSITY AND CULTIVATED TAXA ECOSYSTEM DIVERSITY VALUES AND USES OF BIODIVERSITY LOSS OF BIODIVERSITY CONSERVATION OF BIODIVERSITY MANAGEMENT OF PLANT BIODIVERSITY BIODIVERSITY AND BIOTECHNOLOGY BIODIVERSITY PROSPECTING AND INDIGENOUS KNOWLEDGE SYSTEMS REFERENCES GLOSSARY ACRONYMS AND ABBREVIATIONS SUBJECT INDEX AUTHOR INDEX

CONSERVATION OF BIODIVERSITY IS A FUNDAMENTAL CONCERN TOWARDS SECURING A SUSTAINABLE FUTURE THIS VOLUME ARGUES THAT DESPITE

VARIOUS DOMESTIC AND INTERNATIONAL POLICIES AND LEGAL FRAMEWORKS ON BIODIVERSITY CONSERVATION BE IT FOREST WILDLIFE MARINE COASTAL ETC THEIR IMPLEMENTATION SUFFERS FROM MANY DEFICIENCIES IT EXPLORES THE FACTORS THAT HINDER EFFECTIVE IMPLEMENTATION OF THESE POLICIES AND FRAMEWORKS IT ALSO ANALYSES EXISTING LAWS BOTH INTERNATIONAL AND DOMESTIC TO IDENTIFY INHERENT PROBLEMS IN THE EXISTING LEGAL SYSTEM THE BOOK MAINTAINS THAT CAREFUL ADHERENCE TO ESTABLISHED PROCEDURES AND PROTOCOLS PUBLIC AWARENESS FILLING THE LACUNA IN LEGAL FRAMEWORK AND A STRONG POLITICAL WILL ARE SINE QUA NON FOR EFFECTIVE CONSERVATION OF BIODIVERSITY AND SUSTAINABLE DEVELOPMENT THE VOLUME DEFENDS THE PROTECTION OF TRADITIONAL KNOWLEDGE AND PARTICIPATION OF INDIGENOUS COMMUNITIES ALONG WITH REINFORCEMENTS OF INTELLECTUAL PROPERTY IN THIS REGARD IT ALSO COMMENDS THE ROLE PLAYED BY THE INDIAN JUDICIARY ESPECIALLY THE SUPREME COURT OF INDIA AND INDIA S NATIONAL GREEN TRIBUNAL FOR THE PRESERVATION AND ENHANCEMENT OF NATURAL RESOURCES BY APPLYING ESTABLISHED AS ALSO EVOLVING PRINCIPLES OF ENVIRONMENTAL LAW THIS BOOK WILL BE USEFUL TO SCHOLARS AND RESEARCHERS OF ENVIRONMENTAL STUDIES DEVELOPMENT STUDIES POLICY STUDIES AND LAW RELATED TO BIODIVERSITY AND CONSERVATION

IF YOU ALLY CRAVING SUCH A REFERRED
BIOLOGICAL DIVERSITY AND CONSERVATION
WORKSHEET ANSWERS BOOKS THAT WILL COME
UP WITH THE MONEY FOR YOU WORTH,
ACQUIRE THE DEFINITELY BEST SELLER FROM US
CURRENTLY FROM SEVERAL PREFERRED AUTHORS.
IF YOU DESIRE TO WITTY BOOKS, LOTS OF

NOVELS, TALE, JOKES, AND MORE FICITIONS
COLLECTIONS ARE AFTER THAT LAUNCHED, FROM
BEST SELLER TO ONE OF THE MOST CURRENT
RELEASED. YOU MAY NOT BE PERPLEXED TO
ENJOY ALL BOOKS COLLECTIONS BIOLOGICAL
DIVERSITY AND CONSERVATION WORKSHEET
ANSWERS THAT WE WILL ENTIRELY OFFER. IT IS

NOT GOING ON FOR THE COSTS. ITS
APPROXIMATELY WHAT YOU OBSESSION
CURRENTLY. THIS BIOLOGICAL DIVERSITY AND
CONSERVATION WORKSHEET ANSWERS, AS ONE
OF THE MOST FUNCTIONING SELLERS HERE WILL
ENTIRELY BE IN THE MIDDLE OF THE BEST
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