Ib Biology Hl Paper 3

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dna barcoding has been promoted since 2003 as a new fast digital genomics based means of identifying natural species based on the idea that a small standard fragment of any organism s genome a so called micro genome can faithfully identify and help to classify every species on the planet the fear that species are becoming extinct before they have ever been known fuels barcoders and the speed scope economy and user friendliness claimed for dna barcoding as part of the larger ferment around the genomics revolution has also encouraged promises that it could inspire humanity to reverse its biodiversity destructive habits this book is based on six years of ethnographic research on changing practices in the identification and classification of natural species informed both by science and technology studies sts and the anthropology of science the authors analyse dna barcoding in the context of a sense of crisis concerning global biodiversity loss but also the felt inadequacy of taxonomic science to address such loss the authors chart the specific changes that this innovation is propelling in the collecting organizing analyzing and archiving of biological specimens and biodiversity data as they do so they highlight the many questions ambiguities and contradictions that accompany the quest to create a genomics based environmental technoscience dedicated to biodiversity protection they ask what it might mean to recognise ambiguity contradiction and excess more publicly as a constitutive part of this and other genomic technosciences barcoding nature will be of interest to students and scholars of sociology of science science and technology studies politics of the environment genomics and post genomics philosophy and history of biology and the anthropology of science

schools wishing to introduce the ib diploma programme are faced with major investment in terms of time effort and money in order to become authorised this manual is a resource for schools already offering the diploma as well as for prospective diploma schools

the book before you carries the urgent warning that we are rapidly altering and destroying the environments that have fostered the diversity of life forms for more than a billion years with those words edward o wilson opened the landmark volume biodiversity national academy press 1988 despite this and other such alarms species continue to vanish at a rapid rate taking with them their genetic legacy and potential benefits many disappear before they can even be identified biodiversity ii is a renewed call for urgency this volume updates readers on how much we already know and how much remains to be identified scientifically it explores new strategies for quantifying understanding and protecting biodiversity including new approaches to the integration of electronic data including a proposal for a u s national biodiversity information center application of techniques developed in the human genome project to species identification and classification the gap analysis program of the national biological survey which uses layered satellite climatic and biological data to assess distribution and better manage biodiversity the significant contribution of museum collections to identifying and categorizing species which is essential for understanding ecological function and for targeting organisms and regions at risk the book describes our growing understanding of how megacenters of diversity e g rainforest insects coral reefs are formed maintained and lost what can be learned from mounting bird extinctions and how conservation efforts for neotropical primates have fared it also explores ecosystem restoration sustainable development and agricultural impact biodiversity ii reinforces the idea that the conservation of our biological resources is within reach as long as we pool resources better coordinate the efforts of existing institutions museums universities and government agencies already dedicated to this goal and enhance support for research collections and training this volume will be important to environmentalists biologists ecologists educators students and concerned individuals

the identification of and relationship among pest organisms and their natural enemies is an essential prerequisite for the development of sustainable methods for their control biosystematics is the basis for management of biodiversity in sustainable agriculture there is a vast armory of techniques available to the biosystematist and this book is the first major review of the applications and potential of the methods now in use ranging from the morphometric and ultrastructural to isozymes and dna sequencing this volume consists of 34 papers presented at the third workshop on the ecological foundations of sustainable agriculture wefsa iii organized by cab international and the systematics association held in june 1993 the book is divided into four parts biosystematic services biosystematic information biosystematic characters and biochemical and molecular biosystematics it demonstrates how biosystematics can contribute to improved crop protection and which techniques are appropriate to address particular identification problems and makes recommendations for future actions

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