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Format of the SAT II: Biology E/M About this Book How to Use this Book Test-Taking Tips Study Schedule Scoring the SAT II: Biology E/M Scoring Worksheet The Day of the Test CHAPTER 1 - CHEMISTRY OF LIFE General Chemistry Definitions Chemical Bonds Acids and Bases Chemical Changes Laws of Thermodynamics Organic Chemistry Biochemical Pathways Photosynthesis Cellular Respiration ATP and NAD The Respiratory Chain (Electron Transport System) Anaerobic Pathways Molecular Genetics DNA: The Basic Substance of Genes CHAPTER 2 - THE CELL Cell Structure and Function Prokaryotic Cells Eukaryotic Cells Exchange of Materials Between Cell and Environment Cellular Division Equipment and Techniques Units of Measurement Microscopes CHAPTER 3 - GENETICS: THE SCIENCE OF HEREDITY Mendelian Genetics Definitions Laws of Genetics Patterns of Inheritance, Chromosomes, Genes, and Alleles The Chromosome Principle of Inheritance Genes and the Environment Improving the Species Sex Chromosomes Sex-linked Characteristics Inheritance of Defects Modern Genetics How Living Things are Classified CHAPTER 4 - A SURVEY OF BACTERIA, PROTISTS, AND FUNGI Diversity and Characteristics of the Monera Kingdom Archaeobacteria Eubacteria The Kingdom Protista The Kingdom Fungi CHAPTER 5 - A SURVEY OF PLANTS Diversity, Classification, and Phylogeny of the Plant Kingdom Adaptations to Land The Life Cycle (Life History): Alternation of Generations in Plants Anatomy, Morphology, and Physiology of Vascular Plants Transport of Food in Vascular Plants Plant Tissues Reproduction and Growth in Seed Plants Photosynthesis Plant Hormones: Types, Functions, Effects on Plant Growth Environmental

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*Evolutionary Analysis* CRC Press

Genesis - In The Beginning deals with the origin and diversity of Life and early biological evolution and discusses the question of where (hot or cold sources) and when the beginning of Life took place. Among the sections are chapters dealing with prebiotic chemical processes and considering self-replication of polymers in mineral habitats. One chapter is dedicated to the photobiological regime on early Earth and the emergence of Life. This volume covers the role of symmetry, information and order (homochiral biomolecules) in the beginning of Life. The models of protocells and the genetic code with gene transfer are important topics in this volume. Three chapters discuss the Panspermia hypothesis (to answer "Are we from outer Space?"). Other chapters cover the Astrobiological aspects of Life in the Universe in extraterrestrial Planets of the Solar System and deal with cometary hydrosphere (and its connection to Earth). We conclude with the history and frontiers of Astrobiology.

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How our collective intelligence has helped us to evolve and prosper Humans are a puzzling species. On the one hand, we struggle to survive on our own in the wild, often failing to overcome even basic challenges, like obtaining food, building shelters, or avoiding predators. On the other hand, human groups have produced ingenious technologies, sophisticated languages, and complex institutions that have permitted us to successfully expand into a vast range of diverse environments. What has enabled us to dominate the globe, more than any other species, while remaining virtually



helpless as lone individuals? This book shows that the secret of our success lies not in our innate intelligence, but in our collective brains—on the ability of human groups to socially interconnect and learn from one another over generations. Drawing insights from lost European explorers, clever chimpanzees, mobile hunter-gatherers, neuroscientific findings, ancient bones, and the human genome, Joseph Henrich demonstrates how our collective brains have propelled our species' genetic evolution and shaped our biology. Our early capacities for learning from others produced many cultural innovations, such as fire, cooking, water containers, plant knowledge, and projectile weapons, which in turn drove the expansion of our brains and altered our physiology, anatomy, and psychology in crucial ways. Later on, some collective brains generated and recombined powerful concepts, such as the lever, wheel, screw, and writing, while also creating the institutions that continue to alter our motivations and perceptions. Henrich shows how our genetics and biology are inextricably interwoven with cultural evolution, and how culture-gene interactions launched our species on an extraordinary evolutionary trajectory. Tracking clues from our ancient past to the present, *The Secret of Our Success* explores how the evolution of both our cultural and social natures produce a collective intelligence that explains both our species' immense success and the origins of human uniqueness.

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*Edexcel A-level Year 2 Biology B Student Guide: Topics 8-10* Cambridge University Press

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helped us to select the highest quality papers for the conference. These papers highlight opportunities and challenges

for the next generation of applied intelligence and reveal technological innovations in real applications.