

Biology Review Cell Respiration And Energy Quick Review Notes

E Staff

Biology Review Cell Respiration And Energy Quick Review Notes:

Biology Quick Review and Outline - Full Course Review Notes E Staff, All the important facts that you need to know compiled in an easy to understand summary review and outline Comprehensive document to accompany any classroom instruction session Use it as a handout for quick review purposes Contents Page 1 Science of Biology 6 Biology Themes 6 Darwin's Theory of Evolution 7 Organization of Living Things Nature of Science 8 2 Nature of Molecules 10 Atoms and Chemical Bonds 10 Water 11 3 Chemical Building Blocks of Life 13 Carbohydrates 13 Carbon and Functional Groups 14 Nucleic Acids and Lipids 15 Proteins 17 4 Origin Early History of Life 20 Cell Evolution and Extraterrestrials 20 Life s Characteristics Origin 22 5 Cell Structure 25 Cell Diversity and Cell Movement 25 Cells 26 Eukaryotic Structures 27 Prokaryotic vs Eukaryotic Cells 30 6 Membranes 32 Bulk Active Transport 32 Passive Transport 33 Phospholipid Bilayer 34 7 Cell Cell Interactions 37 Cell Identity 37 Receptors 38 Signaling Between Through Cells 39 8 Energy and Metabolism 42 ATP and Biochemical Pathways 42 Enzymes 42 Thermodynamics 44 9 Cellular Respiration 46 Overview of Respiration 46 Glycolysis 47 Pyruvate Oxidation Krebs Cycle 48 Electron Transport Chain 49 Anaerobic Respiration Metabolism Evolution 51 10 Photosynthesis 53 Overview of Photosynthesis Light Biophysics 53 Chlorophyll Light Reactions 54 Calvin Cycle 57 Cell Division 59 Prokaryotic Cell Division Chromosomes 59 Cell Cycle 60 Checkpoints Cancer 62 12 Meiosis 64 Meiosis Overview 64 Steps of Meiosis 65 Origin of Sex 66 13 Patterns of Inheritance 67 Mendel s Experiment 67 Mendelian Principles 68 Human Genetics 70 Genes on Chromosomes 71 14 DNA Genetic Material 74 Discovery of Genetic Material 74 DNA Structure 75 DNA Replication 75 Gene Structure 77 15 How Genes Work 79 Central Dogma Genetic Code 79 Transcription 80 Translation 81 Gene Splicing 82 16 Gene Technology 83 Manipulating DNA 83 Stages of Genetic Engineering 84 Applying Genetic Engineering 85 17 Genomes 87 Mapping Sequencing 87 Stages of Genetic Engineering 88 Applying Genetic Engineering 89 18 Control of Gene Expression 91 Transcriptional Control DNA Motifs 91 Prokaryotic Eukaryotic Gene Regulation 91 Chromatin Post transcription 92 19 Cellular Mechanisms of Development 94 Types of Development 94 Cell Movement During Development 96 Cell Death 97 20 Nervous System 99 Central Nervous System 99 Peripheral Autonomic Nervous Systems 100 Brain Functions 101 Neurons Drugs 102 21 Sensory Systems 105 Sensory Receptors 105 Body Position Hearing 106 Vision 107 22 Endocrine System 109 Hormones 109 Pituitary Gland 110 Other Endocrine Glands 111 23 Sex Reproduction 114 Fertilization Birth Control 114 Male Reproductive System 115 Female Reproductive System 116 24 Circulatory Respiratory Systems 118 Parts of Circulatory System 118 Parts of Respiratory System 119 Cardiac Cycle 121 Development of Breathing 123 25 Immune System 125 1st and 2nd Lines of Defense 125 3rd Line of Defense 126 Diseases Uses of Immune System 128 26 Renal System Digestive System 130 Homeostasis 130 Parts of Renal System 131 Types of Digestion 132 Parts of Digestive System 133 Digestion Regulation 134 27 Protists Fungi 136 Protists 136 Protist Groups 137 General Fungi Characteristics 139 Fungi Groups 140 28 Evolution of Plants 142 Nonvascular Plants 142 Seedless Vascular

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