Vocab Word Bank

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Chapter 5

Macromolecules Polymer Monomers Enzymes dehydration reaction

Hydrolysis Monosaccharides Disaccharides Polysaccharides Starch

Glycogen Cellulose Chitin Lipids Fatty Acids Triacylglycerol

Saturated Fats Unsaturated Fats Trans Fats Phospholipids Cholesterol

Steroids Catalyst Polypeptide Protein Amino Acids Peptide Bond

Primary Structure Secondary Structure α-Helix β Pleated Sheet

Tertiary Structure Hydrophobic Interaction Disulfide Bridges Quaternary Structure

Sickle Cell Disease Denaturation X-ray Crystallography Gene Nucleic Acids

Polynucleotide Nucleotide Pyrimidines Purines Deoxyribose Ribose

Double Helix Antiparallel Bioinformatics Genomics Proteomics

Chapter 6

Light Microscope Organelle Scanning Electron Microscope

Transition Electron Microscope Cell Fractionation Cytosol Eukaryotic Cell

Prokaryotic Cells Nucleoid Cytoplasm Nucleus Nuclear Envelope

Nuclear Lamina Chromosomes Chromatin Nucleolus Ribosomes

Endomembrane System Vesicles Endoplasmic Reticulum Smooth ER

Rough ER Glycoproteins Transport Vesicles Golgi Apparatus Lysosome

Phagocytosis Vacuole Food Vacuole Contractile Vacuole Central Vacuole

Mitochondria Chloroplast Endosymbiont Theory Cisternae Mitochondrial Matrix

Thylakoid Granum Stroma Plastids Peroxisome Cytoskeleton

Motor Proteins Microtubules Centrosome Centrioles Flagella Cilia

Basal Body Dynein Microfilaments Actin Cortex Myosin

Pseudopodia Cytoplasmic Streaming Intermediate Filaments Cell Wall

Primary Cell Wall Middle Lamella Secondary Cell Wall Extracellular Matrix

Collagen Proteoglycans Fibronectin Integrins

Chapter 7

Selectively Permeable Aquaporins Amphipathic Fluid Mosaic Model Lipid Rafts

Integral Proteins Transmembrane Protein Peripheral Proteins Glycolipids Glycoproteins

Transport Proteins Aquaporins Diffusion Concentration Gradient Passive Transport

Osmosis Tonicity Hypertonic Hypotonic Osmoregulation Turgid Flaccid

Facilitated Diffusion Ion Channels Gated Channels Active Transport

Sodium-Potassium Pump Membrane Potential Electrochemical Gradient Electrogenic Pump

Proton Pump Cotransport Exocytosis Endocytosis

Chapter 9

Fermentation Aerobic Respiration Cellular Respiration Redox Reaction

Oxidation Reduction Reducing Agent Oxidizing Agent NAD+ NADH

Electron Transport Chain Glycolysis Citric Acid Cycle Oxidative Phosphorylation

Substrate-Level Phosphorylation Acetyl CoA Cytochromes ATP Synthase

Chemiosmosis Proton-Motive Force Alcohol Fermentation Lactic Acid

Fermentation Obligate Anaerobes Facultative Anaerobes

Chapter 10

Autotroph Heterotroph Mesophyll Stomata Chlorophyll Light Reaction/Light Dependent

The Calvin Cycle/Light Independent NADP+ NADPH Photophosphorylation

Carbon Fixation Wavelength Electromagnetic Spectrum Visible Light

Spectrophotometer Absorption Spectrum Chlorophyll a Chlorophyll b Action Spectrum

Carotenoids Photosystem Reaction-Center Complex Light-Harvesting Complex

Primary Electron Acceptor PS II PS I Linear Electron Flow Cyclic Electron Flow G3P

Rubisco (Ribulose Bisphosphate)

Chapter 12

Cell Division Cell Cycle Genome Somatic Cell Gametes Sister Chromatids Centromere

Mitosis Cytokinesis Mitotic Phase (M Phase) Interphase G1 Phase

Synthesis Phase (S Phase) G2 Phase Prophase Prometaphase Metaphase Anaphase

Telophase Mitotic Spindle Kinetochore Metaphase Plate Cleavage Cleavage Furrow

Cell Plate Binary Fission Origin of Replication Cell Cycle Control System Checkpoint

Cyclin Cyclin Dependent Kinases MPF G0 Phase Growth Factor Density-Dependent

Anchorage Dependence Transformation Benign Tumor Metastasis

Chapter 13

Heredity Variation Genetics Locus Life Cycle Karyotype Homologous Chromosomes

Autosomes Sex Chromosomes Diploid Cell Haploid Cell Fertilization Zygote Meiosis

Alteration of Generations Meiosis I Meiosis II Synaptonemal Complex Synapsis

Recombinant Chromosomes

Chapter 14

Character Trait True-Breeding Hybridization P Generation F1 generation

F2 Generation Alleles Dominate Allele Recessive Allele Law of Segregation

Punnett Square Homozygote Homozygous Heterozygote Heterozygous

Phenotype Genotype Testcross Monohybrids Monohybrid Cross Dihybrids

Dihybrid Cross the Law of Independent Assortment Complete Dominance

Incomplete Dominance Codominance Tay Sachs Disease Pleiotropy Epistasis

Quantitative Character Polygenic Inheritance Pedigree Carriers Cystic Fibrosis

Chorionic Villus Sampling (CVS) Addition Rule

Chapter 17

Transcription Messenger RNA (mRNA) Translation Primary Transcript Triplet Code

Template Strand Codons Coding Strands Reading Frame RNA Polymerase Promoter

Terminator Transcription Unit Start Point Transcription Factors

Transcription Initiation Complex TATA Box RNA Processing 5' Cap Poly-A tail

RNA Splicing Introns Exons Spliceosome Ribozymes Alternative RNA Splicing

tRNA Anticodon Aminoacyl-tRNA Synthetases Wobble Ribosomal RNAs (rRNAs)

P Site A Site E Site Single Peptide Signal-Recognition Particle (SRP)

Polyribosomes or Polysomes Mutation Point Mutations

Nucleoid-Pair Substitution Silent Mutation Missense Mutation Nonsense Mutation

Insertion Deletion Frameshift Mutation Mutagens

Ch 22

Evolution Strata Paleontology Adaptations Natural Selection Artificial Selection Homology

Homologous Structures Vestigial Structures Evolutionary Tree Convergent Evolution Analogous

Biogeography Endemic