Exam I Vocabulary

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| **Across**  **4.** helped low-income producers replenish nitrogen in their soils  **6.** monomeric units of DNA or RNA  **9.** macromolecule composed of 3 to 20 monosaccharides  **17.** matrix enclosed within a plasma membrane that is composed of water, salts, and proteins and contains cellular structures  **22.** bacillus cells arranged in chains  **23.** polymer containing genetic information  **24.** segment of DNA encoding for a protein or non-coding RNA molecule  **25.** proposed the Endosymbiotic Theory  **26.** cells with a layer of mycolic acid in their cell walls that stain red following an acid-fast stain  **29.** accidentally discovered the antimicrobial properties of penicillin  **30.** polysaccharide composing the cell walls of bacteria  **31.** cocci cells arranged in chains  **32.** provided evidence for the Germ Theory of Disease using Koch's postulates  **33.** era in which microorganisms first evolved on Earth  **34.** polypeptides or groups of polypeptides forming a molecule with secondary, tertiary, and (occasionally) quaternary structure that has a specific function | **Down**  **1.** single-celled organisms  **2.** grape-clustered arrangement of cells  **3.** disproved spontaneous generation and supported biogenesis  **5.** cells with thin layers of peptidoglycan, lipopolysaccharides, and four-ring flagella that stain red in a Gram stain  **7.** round morphology  **8.** macromolecule composed of 20+ monosaccharides  **10.** cells with thick layers of peptidoglycan, teichoic acids, and two-ring flagella that stain purple in a Gram stain  **11.** eon in which microorganisms first evolved on Earth  **12.** genetic element that carries all the genes required by a microorganism (e.g. bacterium)  **13.** short, linear sequences of amino acids  **14.** structural layer outside the plasma membrane surrounding some cells  **15.** monomeric units of polypeptides or proteins  **16.** single sugar units  **18.** macromolecule composed of two monosaccharides  **19.** rod-shaped morphology  **20.** extrachromosomal element that houses genes  **21.** multicellular organisms that exist as multiple cells or colonies of cells  **27.** discovered the strain of Penicillium that could be mass produced for antibiotics  **28.** credited with introducing inoculations to the Americas |