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 |