SUPPLEMENTAL INSTRUCTION FOR SURVEY OF BIOLOGY by Richard X. Thripp
Week 12, Fall 2009, Nov 18 / 19. Taxonomy and Microbes ch. 14-15. daytonastate.org/biology

1.) Carolus Linnaeus developed the taxonomic naming system.
2.) Which of these is correct? (Circle one) Panthera pardus Panthera pardus Panther Pardus
3.) Domain, Kingdom, Phylum, Class, Order, Family, Genus, species
4.) Prokaryotic cells divide by binary fission. DNA is in the nucleoid, part of the cytoplasm.
5.) What shape of bacteria is spherical? (Circle) Coccus Bacillis Spirochetes
6.) What shape of bacteria is brick or rod shaped? Bacillis Spiral shaped? Spirochetes
7.) Autotrophs get carbon from CO2 (carbon dioxide—inorganic). Heterotrophs get carbon from
organic compounds. A photoautotroph gets its energy from Sunlight and carbon from CO2.
8.) A chemoautotroph gets its energy from inorganic chemicals and its carbon from COz.
9.) A photoheterotroph gets its energy from sunlight and carbon from organic compounds.
10.) A chemoheterotroph gets its energy AND carbon from organic
11.) Green, red, and brown algae are multicellular <u>Protista</u> (eukaryotic kingdom).
12.) What is the ancestors of land plants? green a gae (unicellular and colonial)
13.) A ciliate moves by <u>cillo</u> . A flagellate moves by <u>flagella</u> .
14.) Which of these is a chemoheterotroph? (Circle 2) humans trees flowers mushrooms
15.) Which of these is a photoautotroph? (Circle 1) mushrooms humans (trees w/ leaves)
16.) A waxy <u>cuticle</u> prevents dehydration in plants. (ch. 16)
17.) Mosses (bryophytes) alternate between the gametophyte and the sporophyte generations. The
gametophyte is ho_ploid (1N), and makes gametes by mitosis . (ch. 16)
18.) The sporophyte is diploid (2N) and makes spores by meiosis. (ch. 16)
19.) Forms were the first plants to develop a Vascular system. They are seedless. (ch. 16)
20.) Cymno sperms (conifers) were the first seed plants. (ch. 16)