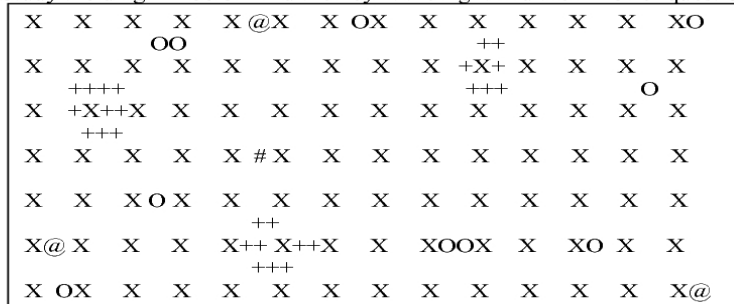


ECOLOGY UNIT TEST REVIEW WORKSHEET Name \_\_\_\_\_ Hr. \_\_\_\_\_

Study the diagram below and the key at the right and then answer questions 1-6.



KEY

X = White pine trees

O = Red squirrels

+= English sparrows

# = Great horned owl

@ = Cottontail rabbits

Area enclosed = 3.5 acres

1. What is the size of the English sparrow population? \_\_\_\_\_ (1)
  2. Calculate the population density of the white pine trees. \_\_\_\_\_ (2)
  3. The white pine trees exhibit a \_\_\_\_\_ population distribution. (1)
  4. The red squirrel population exhibits a \_\_\_\_\_ population distribution. (1)
  5. Calculate the population density of the cottontail rabbits. \_\_\_\_\_ (2)
  6. The English sparrow population exhibits a \_\_\_\_\_ population distribution. (1)
- FILL IN THE BLANKS / SHORT ANSWERS
7. List four abiotic factors of water quality that could affect the survival of aquatic plants and animals. (4)  
a) \_\_\_\_\_ b) \_\_\_\_\_ c) \_\_\_\_\_ d) \_\_\_\_\_
  8. Cactus, yucca, sagebrush and tumbleweed all represent the plant group called \_\_\_\_\_. (1)
  9. Cattails, waterlilies and pondweeds all represent the plant group called \_\_\_\_\_. (1)
  10. All of the abiotic factors in an ecosystem form the \_\_\_\_\_. (1)
  11. Monkeys, sloths, squirrels, parrots and tree snakes are all types of \_\_\_\_\_ animals. (1)
  12. List four abiotic factors of rocks or soil that could affect the survival of animals or plants living in them. (4)  
a) \_\_\_\_\_ b) \_\_\_\_\_ c) \_\_\_\_\_ d) \_\_\_\_\_
  13. All of the plants, animals, fungi, protists and bacteria living within an ecosystem collectively form the \_\_\_\_\_. (1)
  14. Any stable habitat where biotic and abiotic factors interact to create new life that sustains itself is called an \_\_\_\_\_. (1)
  15. \_\_\_\_\_ is the study of the relationships between organisms and their environments. (1)
  16. The physical features of the Earth's surface are known as its \_\_\_\_\_. (1)