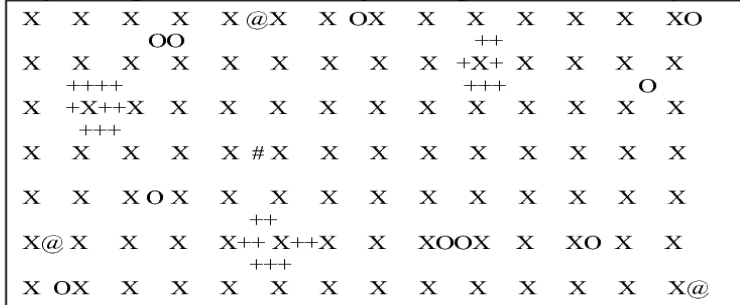


Study the diagram below and the key at the right and then answer questions 1-6.



- 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)