

Questions

1. What is the age of the tree in diagram 1? (2 pts.)

2. At what ages did the tree in diagram 1 experience environmental stresses? (1 pt. each)

3. List possible sources of environmental stress for trees in our area. (1 pt. each)

4. Construct a tree chronology by listing the age or year for the following events using the tree cross-section in diagram 2. (1 pt. each)

Year: _____ There is plenty of rain and sunlight.

Year: _____ Gypsy Moth caterpillars eat the tree leaves.

Year: _____ The neighboring trees are cut down for firewood.

Year: _____ There is plenty of rain and sunlight.

Year: _____ The sapling remains short. The nearby trees continue to shade it.

Year: _____ Gypsy Moth caterpillars eat the tree leaves. The tree becomes diseased with a fungus infection.

Year: _____ There is plenty of rain and sunlight.

Year: _____ Nearby trees are very tall. Not much sunlight reaches the young sapling.

5. Why was the gypsy moth brought to the United States? (2 pts.)

6. List 3 factors that contributed to the spread of the gypsy moth in the United States. (1 pt. each)

7. In what ecological habitat do gypsy moths live (be specific!)? (2 pts.)

8. How have humans contributed to the spread of the gypsy moth? List examples. (2 pts.)

9. At what rate do gypsy moths spread naturally? (2 pts.)

10. If the distance from Waukegan to Dubuque, Iowa is 166 miles, then how long will it take the gypsy moth to reach there by natural dispersal? Show your work. (2 pts.)
