

1. Some scientists are arguing for the broad implementation of a tactic called
2. “assisted migration”—the act of relocating plants and animal species to protect
3. them from climate change. Assisted migration may help (29) of
4. “evolutionary lag.” Normally, an ecosystem requires this time to adapt to
5. environmental changes. Given the rapidity of recent climate shifts, however, if
6. species are unable to adapt quickly enough, they could disappear altogether.
7. The scientists hope that assisted migration can help avoid this calamity.



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8. *Choose the correct answer to fill in the blank from these choices.

9. (29) 1 hasten the start 2 reverse the course
10. 3 reveal the cause 4 bypass the process

Further Questions

11. 1) What is assisted migration?

12. *Assisted migration is the act of relocating plants and animal species to protect*
13. *them from climate change.*

14. 2) What is meant by “evolutionary lag”?

15. *Normally, an ecosystem requires time to adapt to environmental changes.*

16. 3) What calamity do scientists hope that assisted migration can help avoid?

17. *The calamity is the disappearance of species altogether.*

18. An early project involved *Torreya taxifolia*, a conifer only found in a tiny region
19. in Florida. Fearing global warming would wipe out the species, volunteers and
20. botanists replanted dozens of the trees far to the north in the state of North
21. Carolina, where the climate is now thought to be more hospitable to the fragile
22. plants. Interestingly, the greatest supporter of the practice in North America
23. has been the timber industry. Coniferous forests (30) rising temperatures.
24. Recent mild winters have allowed the pine beetle to spread across the
25. American and Canadian West; the larvae of these beetles feed on the trees
26. destroying millions of acres of forest. Drought has also taken a toll on wooded
27. areas throughout North America. In British Columbia, which relies heavily on
28. its timber and paper industries, the government has decided to undertake the
29. largest assisted migration project to date, moving a million larch seedlings up
30. to 200 miles northwest of their native range.

31. *Choose the correct answer to fill in the blank from these choices.

32. (30) 1 have been affected by 2 can grow quickly in
33. 3 are resistant to 4 are a way to combat

Further Questions

34. 4) To where did the volunteers and botanists replant the *Torreya taxifolia*
35. trees?

36. *They replanted dozens of the trees far to the north in the state of North*

37. *Carolina.*

38. **5) What has happened because of recent mild winters?**

39. *The pine beetle has spread across the American and Canadian West.*

40. Many conservationists (**31**) assisted migration. They point out that, from a
41. conservation standpoint, introducing species into an ecosystem violates the
42. fundamental principle of preserving the natural order of things. It also carries
43. an element of uncertainty. Laurie Wayburn, president of the conservation
44. advocacy group Pacific Forest Trust, says, "The fact is, we do not know how
45. climate change will impact specific areas with precision." Continued warming,
46. however, may compel foes of assisted migration to reconsider the practice. It is
47. not hard to imagine such manipulation of ecosystems gaining wider acceptance
48. if it proves the only means of preventing species extinction.

49. *Choose the correct answer to fill in the blank from these choices.

50. **(31)** 1 reject criticism of 2 take a 懐疑的 (かいぎてき) な skeptical attitude toward
51. 3 propose a unique way to use 4 have a reputation for supporting

Further Questions

52. **6) What fundamental principle is violated by assisted migration?**

53. *The principle of preserving the natural order of things is violated.*

54. **7) Why might foes of assisted migration reconsider the practice?**

55. *It may prove the only means of preventing species extinction.*

56. **8) Are you in favor of assisted migration?**

57. *ex.) No, I am not. I think it will hurt the new environment the plants are*
58. *introduced into more than help.*

解答: (29) 4 (30) 1 (31) 2



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