1. In 1993, director Steven Spielberg had a big 2. Park. The movie was about a theme park where people could see cloned 3. dinosaurs, but it was criticized by some scientists as 4. Dinosaurs, they say, could never be brought back to life by cloning. What those 5. scientists did not know, though, was how much progress cloning would make 製作(せいさく) された 特(とく) に 方法(ほうほう) ~として知(し) られている
6.after the movie was produced . In particular, a new method known as

異(こと) なる生物種(せいぶつしゅ) の間(あいだ) の コピーをつくること
7." interspecies cloning" has brought the world of Spielberg's movie 現実(げんじつ) 8 much closer to reality. Interspecies cloning means using the egg of 動物(どうぶつ)の一種(いっしゅ) ~を作(つく)り上(あ)げる 9.<u>one species of animal</u> to produce a clone of another species. 持(も) ち出(だ) された 10. First, an egg is taken out of a female animal and the DNA is removed 11. Then the DNA of another animal is put into the egg. 電気 (でんき) 通過 (つうか) した それが成長 (せいちょう) し始 (はじ) める原因 (げんいん) だ 12. Electricity is passed through the egg, causing it to start growing

13. The egg is then put back into the mother's body, where it develops into a normal abb (そうぞう) する たくさんの たくさんの

14 baby. Scientists have so far managed to create <u>a number of</u> animal clones 15 in this way.

Further Questions&A*Ask student to answer the question on their own at first. If the student can't answer correctly, have him look at the last page and read the "example answer" for the question. Have the student try to memorize the answer, if it's too long or difficult, you should divide the sentence into 2 or 3 parts to make it easier to remember. Once they have memorized the answer, the teacher should ask the question one last time so that the student can practice answering. Also if you find any mistakes, please mark the page and let me know ASAP.

- 16.1) Why do you think scientists said it was impossible to clone dinosaurs like in the movie *Jurassic Park*?
- 17. あなたはなぜ科学者たちが映画 "Jurassic Park" ように 恐竜 のクローンを作ることは不可能だと言ったと思いますか。 過程 (かてい)
- 18. The process used in the movie would not work in real life.
- 19.2) What is interspecies cloning? 異種間クローニングとはなんですか。
- 20.A clone of one species is created using the embryo of a different species.
- 21.3) How does interspecies cloning work? 異種間クローニングはどのように作用しますか。
- 22. The DNA of one species is put into the embryo of a different species.
- 23. One scientist who has been working on interspecies cloning is Betsy Dresser of
- 24. the Audubon Nature Institute in New Orleans. Dresser's goal, however,

- P2 | Lesson 15. Copyright © 2012 by eTOC-surely work-All Rights Reserved 長文読解デュアルメソッド英検 2級レベル もたらすことはなかった 絶滅(ぜつめつ)した animals back to life. 25.has not been to bring 防(ふせ)ぐ 26. Rather, she hopes to prevent animals from becoming extinct in the future. 作 (つく) り上 (あ) げた clones of African wildcats by putting their DNA 27. So far , she has produced 28. into the eggs of ordinary pet cats. (普通の猫の卵細胞にアフリカヤマネコのDNAを入れる事によってアフ 彼女(かのじょ)によって作(つく)られた リカヤマネコのコピーを作り上げた)The clones she has produced 健康的(けんこうてき)なだけでなく 29 have not only been healthy, but have also given birth to kittens themselves. ~することを許(ゆる)す 30. She believes that this kind of cloning will allow scientists to increase 動物(どうぶつ)の集団(しゅうだん) それが必要(ひつよう)なときに
- Further Questions & A
- 32.4) What is Betty Dresser's goal? Betty Dresser の 首標 はなんですか。

31 animal populations when it is necessary.

- all the DNA of endangered species so that they might 33. *To* catalogue 再創造(さいそうぞう)させられる in the future if they go extinct.
- 34.5) Have the clones she has made been healthy? 彼女が作り上げたクローンたちは健康ですか。 35. Yes, and some have even had children.
- よく憶(おぼ)えておく in mind , Dresser has been creating a "frozen 36. With this goal zoo" of animals. She has collected tiny pieces of skin containing the endangered
- 38. DNA of hundreds of different species from around the world.
- 入(い)れ物(もの) 39. She keeps these frozen in small containers so that if it becomes necessary in the
- 専門家(せんもんか) 賛成(さんせい)する 40 future, clones can be created. Not all experts with the idea of 防 (ふせ) ぐ 損害 (そんがい)
- 41.creating clones. Some of them say that it is more important to prevent damage
- 42 to the environment. In this way, animals could continue to live
- that if it is a 43. where they are. Dresser agrees but choice between argues
- 44.extinction and cloning, it is better to choose cloning.

Further Questions&A

- 反対 (はんたい) する 45.6) Why do some people disagree with Betty Dresser's method?
- なぜ一部の人々は Betty Dresser の方法に反対しているのですか。
- 保存(ほぞん)する 47. They feel it would be better to focus energy on preserving the environment it after it is too late. rather than rely on cloning to
- 48.7) Do you think it would be possible to bring extinct species back using Betty Dresser's methods? あなたは絶滅種を Betty Dresser の方法で呼び戻すことができると思いますか。
- 49. We can create individuals if we have the DNA, but not whole species.
- 50.8) What is an extinct animal you would bring back if you could?
- もし絶滅種を1つ呼び戻すことができるならあなたは何を呼び戻したいですか。

P3 | Lesson 15. Copyright © 2012 by eTOC-surely work-All Rights Reserved 長文読解デュアルメソッド英検 2 級レベル 52. Seeing the flying dinosaurs might be nice.

53. (41) Why did some scientists criticize Jurassic Park?

- 54. なぜ科学者は Jurassic Park を非難しましたか。
- They disliked using dinosaurs for entertainment.
- They opposed the idea of creating fake dinosaurs.
- 57.3 They doubted that dinosaurs could ever be cloned.
- They thought the dinosaurs in it were the wrong size.
- 80.1 By replacing the DNA in an animal's egg with the DNA of another animal. ~に使用(しよう) される 集(あつ) めること
- By raisings many different kind animals to be used collecting DNA.
- 62.3 By gradually changing DNA to create a new animal.
- By using electricity to create DNA in a laboratory.
- 64. (43) What is Better Dresser trying to do? Better Dresser は何をしようとしていますか。
- 1 Increase the wariety of pets that people keep.
- 66.2 Create new species that can avoid extinction.
- 67.3 Show that cloned animals are not healthy.
- 68.4 Make it possible stop species from dying out.
- 専門家 (せんもんか) ~に反対 (はんたい) する experts against cloning?
- 70. ある専門家たちがクローン化に反対しているのはなぜですか。 心配 (しんぱい) している
- 71.1 They are concerned about the effect of clones on other animals.
- 72.2 They worry that cloning will only be able to help a few species.
- 73.3 They think that it would be better to protect the places where animals live.
- 74.4 They believe that storing animal DNA for the future will be too expensive.
- 後 (あと) につづく **Which of the following statements is true?** 次の陳述のうち、正しいものを選びなさい。 現実的 (げんじつてき) な それが初 (はじ) めて現 (あら) れたとき
- 76.1 Jurassic Park seems much more realistic now than when it was first shown.
- 77.2 Dresser has collected clones of many different species from all over the world.
- 79.4 It is still impossible to create clones that are able to produce babies of their own.

Review Questions

80.1) Why do you think scientists said it was impossible to clone dinosaurs like in the movie Jurassic Park?

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- 81. The process used in the movie would not work in real life.
- 82.2) What is interspecies cloning?

83. A clone of one species is created using the embryo of a different species.

84.3) How does interspecies cloning work?

85. The DNA of one species is put into the embryo of a different species.

86.4) What is Betty Dresser's goal?

でとつひとつ列挙(れっきょ)する 絶滅(ぜつめつ)しそうな 87. To catalogue all the DNA of endangered species so that they might 再創造(さいそうぞう)させられる in the future if they go extinct.

- 88.5) Have the clones she has made been healthy?
- 89. Yes, and some have even had children.
- 90.6) Why do some people disagree with Betty Dresser's method?
- nather than rely on cloning to fix it after it is too late.
- ^{92.}7) Do you think it would be possible to bring extinct species back using Betty Dresser's methods?
- 98. We can create individuals if we have the DNA, but not whole species.
- 94.8) What is an extinct animal you would bring back if you could?
 95. Seeing the flying dinosaurs might be nice.

解答: (41) 3 (42) 1 (43) 4 (44) 3 (45) 1

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96. In 1993, director Steven Spielberg had a big hit with his movie *Jurassic Park*.
97. The movie was about a theme park where people could see cloned dinosaurs, but
98. it was criticized by some scientists as unrealistic. Dinosaurs, they say, could
99. never be brought back to life by cloning. What those scientists did not know,
100. though, was how much progress cloning would make after the movie was
101. produced. In particular, a new method known as "interspecies cloning" has
102. brought the world of Spielberg's movie much closer to reality.
103. Interspecies cloning means using the egg of one species of animal to produce a

- 103.Interspecies cloning means using the egg of one species of animal to produce a 104.clone of another species. First, an egg is taken out of a female animal and the
- 105.DNA is removed. Then the DNA of another animal is put into the egg.
- 106 Electricity is passed through the egg, causing it to start growing.
- 107. The egg is then put back into the mother's body, where it <u>develops into</u> a normal 108 baby. Scientists have so far managed to create <u>a number of</u> animal clones in this 109 way.

Further Questions&A

- 110.1) Why do you think scientists said it was impossible to clone dinosaurs like in the movie *Jurassic Park*?
- 111.2) What is interspecies cloning?
- 112.3) How does interspecies cloning work?

113. One scientist who has been working on interspecies cloning is Betsy Dresser of 114.the Audubon Nature Institute in New Orleans. Dresser's goal, however, has not 115 been to bring extinct animals back to life. Rather, she hopes to prevent animals 116. from becoming extinct in the future. So far, she has produced clones of African 117. wildcats by putting their DNA into the eggs of ordinary pet cats. The clones 118. she has produced have not only been healthy, but have also given birth to kittens 119. themselves. She believes that this kind of cloning will allow scientists to increase 120. animal populations when it is necessary.

Further Questions&A

Detty Dresser's goal?

122.5) Have the clones she has made been healthy?

123. With this goal in mind Details and Details are shown in the clones of the clo 123. With this goal in mind, Dresser has been creating a "frozen zoo" of endangered 124.animals. She has collected tiny pieces of skin containing the DNA of hundreds of 125. different species from around the world. She keeps these frozen in small 126.containers so that if it becomes necessary in the future, clones can be created. 127. Not all experts agree with the idea of creating clones. Some of them say that it is 128.more important to prevent damage to the environment. In this way, animals 129 could continue to live where they are. Dresser agrees but argues that if it is a 130.choice between extinction and cloning, it is better to choose cloning.

Further Questions&A

- 131.6) Why do some people disagree with Betty Dresser's method?
- 132.7) Do you think it would be possible to bring extinct species back using Betty Dresser's methods?
- 133.8) What is an extinct animal you would bring back if you could?

Why did some scientists criticize *Jurassic Park*? 134.**(41)**

- They disliked using dinosaurs for entertainment. $_{135}$. **1**
- They opposed the idea of creating fake dinosaurs. 136.2
- They doubted that dinosaurs could ever be cloned. 137.3
- They thought the dinosaurs in it were the wrong size. 138.4

What is one way that scientists have been able to create animal clones? 139.**(42)**

- By replacing the DNA in an animal's egg with the DNA of another animal. 140. 1
- By raisings many different kind animals to be used collecting DNA. $_{141.}$ **2**
- By gradually changing DNA to create a new animal. 142.3
- By using electricity to create DNA in a laboratory. 143.**4**

What is Better Dresser trying to do?

Increase the variety of pets that people keep. 145.1

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- 146.2 Create new species that can avoid extinction.
- 147.3 Show that cloned animals are not healthy.
- 148.4 Make it possible stop species from dying out.

149. (44) Why are some experts against cloning?

- 150.1 They are concerned about the effect of clones on other animals.
- They worry that cloning will only be able to help a few species.
- 152.3 They think that it would be better to protect the places where animals live.
- 153.4 They believe that storing animal DNA for the future will be too expensive.

154. (45) Which of the following statements is true?

- 155.1 Jurassic Park seems much more realistic now than when it was first shown.
- Dresser has collected clones of many different species from all over the world.
- 157.3 There is a possibility that even ordinary pets like cats will become endangered.
- 158.4 It is still impossible to create clones that are able to produce babies of their own.

Review Questions

- 159.1) Why do you think scientists said it was impossible to clone dinosaurs like in the movie Jurassic Park?
- 160.2) What is interspecies cloning?
- 161.3) How does interspecies cloning work?
- 162.4) What is Betty Dresser's goal?
- 163.5) Have the clones she has made been healthy?
- 164.6) Why do some people disagree with Betty Dresser's method?
- Dresser's methods?
- 166.8) What is an extinct animal you would bring back if you could?

解答: (41) 3 (42) 1 (43) 4 (44) 3 (45) 1

