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 ${f 4[B]}-{f Lessons~from~the~Ozone~Hole}$  Lesson $19~{
m G2~Chobun~TypeB}$  11.2(4B) A2E

- 1.In May 1985, scientists from the British Antarctic Survey shocked the world by
- 2.announcing the discovery of a huge hole in the ozone layer above the Antarctic.
  3.Ozone is a gas usually formed from oxygen that is high in the earth's atmosphere.
- 4. The ozone layer is essential to life on our planet because it protects us from
- 5.harmful ultraviolet rays produced by the sun. Without the ozone layer, these rays
- 6. would cause cancer and other disease in both human beings and animals.
- 7.☆ 

  Memorization Further Questions & Sample Answers
- 8.1) What did the British Antarctic Survey discover?
- 9. They discovered a huge hole in the ozone layer.
- 10.2) Why is the ozone layer essential to life?
- 11. Because it protects us from harmful ultraviolet rays produced by the sun.
- 12. The world's reaction to scientists' discovery was surprisingly quick.
- 13. Data showed that the ozone hole had been created by gases called
- 14.chlorofluorocarbons (CFCs), which were widely used in machines such as air
- 15.conditioners and refrigerators.
- 16. By 1988, 46 governments had signed the Montreal Protocol, a treaty that
- 17.banned the use of these gases. Eventually, this treat way signed by every
- 18 member country of the United Nations—the only treaty ever to be signed by so 19 many nations.
- 20. It will be a long time before the ozone hole disappears completely, but it soon
- 21.stopped growing.
- 22. Persuading the international community to adopt the Montreal Protocol was
- 23.considered to be a great achievement for the environmental movement.
- 24.☆ 

  Memorization Further Questions & Sample Answers
- 25.3) What was the hole in the ozone layer caused by?
- 26. It was created by gasses called CFCs.



- 27.4) What was so amazing about the Montreal Protocol?
- 28. It was signed by every member country of the United Nations.
- <sup>29</sup>According to scientists, there were two reasons why people responded so quickly <sup>30</sup> to the danger.
- 31. The first was that it was easy to understand.
- 32. If the hole kept growing, it would threaten life everywhere.
- 33. The second reason was that it was easy to replace the CFCs with\*hydro
- 34.chlorofluorocarbons (HCFCs), gases that do much less damage to the ozone layer.
- 35. Unfortunately, though, HCFCs have their own problems.
- 36. Not only do they contribute to global warming, but they may also be a major
- 37. factor in the development of acid rain.

P2 | Lesson 19. Copyright © 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 \*HCFCs= hydrochlorofluorocarbons =ヒドロクロロフルオロカーボン

温暖化現象の原因となりうるプロンガスの代わりにとして、学導体の製造過程や冷蔵庫などに利用されている物質。ハイドロフルオロカーボンやパーフルオロカーボン、六フッ化硫黄などがある。

#### 

- 39.5) What was one reason people responded so quickly to the danger?
- 40. If the hole kept growing it would threaten life everywhere.
- 41. 2 It was easy to replace the CFCs with HCFCs which do much less damage.
- 42.6) What are problems with HCFCs?
- 43. They contribute to global warming and they may be a major factor in the development of acid rain.
- 44. Does this mean that the ban on CFCs was a bad idea?
- 45. The ozone hole was a real danger and, without the ban, it would have quickly
- 46.grown to cover the whole planet.
- 47. Stopping its growth was a major victory. Nevertheless, the difficulties caused by
- 48.HCFCs show how complicated environmental problems can be.
- 49 Above all, they demonstrate how important it is for us to find a way to control the
- 50.main cause of global warming—the harmful gases that we keep putting into the 51.atmosphere.

# 52. $\Leftrightarrow$ Memorization Further Questions & Sample Answers

- 53.7) What would have happened had the ban not happened?
- 54. It would have quickly grown to cover the whole planet.
- 55.8) What did the HCFCs demonstrate?
- 56. They demonstrated it is important for us to find a way to control harmful gases
- 57. we put into the atmosphere.

## 59 (37) The ozone layer is important because it

- 60.1 helps preserve the oxygen necessary for life.
- 61.2 protects us from rays that can cause serious diseases.
- 62.3 allows us to calculate the amount of pollution in the air.
- 63.4 stops the earth's atmosphere from being damaged by the sun.

# 64.(38) Why was the Montreal Protocol seen as a great success for the

- 65.environmental movement?
- 66.1 It forced governments to do more research on the ozone layer.
- 67.2 It provided data showing that CFCs created the ozone hole.
- 68.3 It attracted attention to the damage being done to nature.
- 69.4 It was agreed to be more countries than any other treaty.

# 70.(39) What was one reason CFCs could be banned so quickly?

- 71.1 Scientists were becoming concerned about acid rain.
- 72.2 People recognized that global warming was a real problem.
- 73.3 A gas that was not as harmful to the ozone layer was available.
- 74.4 They were being produced in only a few places around the world.

## 75.(40) The ban on CFCs was a good idea because

- 76.1 it led to a reduction in global warming.
- 177.2 it saved the planet from a serious threat.
- 78.3 it reduced the amount of HCFCs in the air.
- 79.4 it showed how complicated nature is.

#### Review Questions

- 80.1) What did the British Antarctic Survey discover?
- 81. They discovered a huge hole in the ozone layer.
- 82.2) Why is the ozone layer essential to life?
- 88. Because it protects us from harmful ultraviolet rays produced by the sun.
- 84.3) What was the hole in the ozone layer caused by?
- 85. It was created by gasses called CFCs.
- 86.4) What was so amazing about the Montreal Protocol?
- 87. It was signed by every member country of the United Nations.
- 88.5) What was one reason people responded so quickly to the danger?
- 89. 1 If the hole kept growing it would threaten life everywhere.
- 90. 2 It was easy to replace the CFCs with HCFCs which do much less damage.
- 91.6) What are problems with HCFCs?
- 92. They contribute to global warming and they may be a major factor in the development of acid rain.
- 93.7) What would have happened had the ban not happened?
- 94. It would have quickly grown to cover the whole planet.
- 95.8) What did the HCFCs demonstrate?
- 96. They demonstrated it is important for us to find a way to control harmful gases we put into the atmosphere.



Not for use outside Flex English Community 解答:  $(37) \ 2 \ (38) \ 4 \ (39) \ 3 \ (40) \ 2$ 



113.chlorofluorocarbons (CFCs), which were widely 114. such as air conditioners and refrigerators. By 1988, 46 governments had

every member country of the United Nations—the only signed by 条約(じょうやく) これまでに

ever to be signed by so many nations. 118. treaty

消(き) え失(う) せる 完全(かんぜん) に 119. It will be a long time before the ozone hole disappears completely, but it soon 増大 (ぞうだい) する 説得 (せっとく) する 共同体 (きょうどうたい)

stopped growing. Persuading the international community to 取(と)り入(い)れる モントリオール 議定書(ぎていしょ) 熟考(じゅっこう)された

the Montreal Protocol was considered to be a great adopt 環境(かんきょう)の 運動(うんどう)

121.achievement for the environmental movement.

#### 122.☆ Memorization Further Questions&Sample Answers

123.3) What was the hole in the ozone layer caused by? オゾン層の穴の原因はなんですか。 ~と呼(よ)ばれた フロンガ 124. It was created by gasses called CFCs.

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P5 | Lesson 19. Copyright © 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
                  驚(おどろ)くべき
125.4) What was so amazing about the Montreal Protocol?
126.Montreal Protocol の驚くべきことはなんですか。
      ~によってサインされた
127. It was signed by every member country of the United Nations.
                                         理由(りゆう)
128. According to scientists, there were two reasons why people responded so
                危険(きけん)なもの
129.quickly to the
                  danger
130. The first was that it was easy to understand.
             ~し続(つづ)けた 増大(ぞうだい)する
                                            ~に驚異(きょうい)をあたえる
131. If the hole
                                                             life everywhere.
                         growing , it would
               kept
                                               threaten
                                            取(と)り替(か)える
132. The second reason was that it was easy to
                                                        the CFCs with
                                              replace
        代替(だいたい)フロンガス
133.*hydrochlorofluorocarbons (HCFCs), gases that do much less damage to the
134.ozone layer.
    不幸(ふこう)にも
135. Unfortunately, though, HCFCs have their own problems.
~だけでなく 助長 (じょちょう) する 地球温暖化 (ちきゅうおんだんか)

136.Not only do they contribute to global warming , but they may also be a
                                発達 (はったつ)
  重要(じゅうよう)な 要因(よういん)
                                             酸性雨(さんせいう)
               factor in the development of acid rain.
    major
 *HCFCs= hydrochlorofluorocarbons =ヒドロクロロフルオロカーボン
 温暖化現象の原因となりうるプロンガスの代わりにとして、半導体の製造過程や冷蔵庫などに利用されている物質。ハ
 イドロフルオロカーボンやパーフルオロカーボン、六フッ化硫黄などがある。
138.☆ 

Memorization Further Questions&Sample Answers
                                 反応(はんのう)した
139.5) What was one reason people responded so quickly to the danger?
     人々がこの危険に早急に反応した1つの理由はなんですか。
141. 1 If the hole kept growing it would
                                                        life everywhere.
142. 2 It was easy to
                              the CFCs with HCFCs which do much
                    replace
143. damage.
144.6) What are problems with HCFCs? HCFCs の問題はなんですか。
145. They contribute to global warming and they may be a major factor in the
146. development of acid rain.
  これは~の意味(いみ)ですか
                           禁止(きんし)
                                   on CFCs was a bad idea?
147.Does this mean that the ban
                                        禁止事項(きんしじこう)がなければ
148. The ozone hole was a real danger and, without the ban, it would have quickly
                      全体(ぜんたい) 惑星(わくせい)
149.grown to cover the
                        whole
                                 planet.
              増大(ぞうだい)
                            重要(じゅうよう)な 勝利(しょうり)
150. Stopping its growth was a major
                                          victory.
                     困難(こんなん)
                                                        どれほど
                                                              複雑 (ふくざつ) な
151. Nevertheless, the difficulties caused by HCFCs show how complicated
                            なりえる
                                     とりわけ
                                                   実証 (じっしょう) する
152.environmental problems can be. Above all, they demonstrate how important
                                                 原因(げんいん)
                            制御(せいぎょ)する
                                              主な
153. it is for us to find a way to control the main
                                                            of global
                 有害 (ゆうがい) な
                                                加(くわ)えること
154.warming—the harmful gases that we keep putting into the atmosphere.
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## 155.☆ Memorization Further Questions&Sample Answers

156.7) What would have happened had the ban not happened?

もしこの禁止令がなかったらどのようなことが起こったでしょうか。

Strictly PROHIBITED

158. It would have quickly grown to cover the whole planet.

159.8) What did the HCFCs demonstrate? HCFCs が 証明 していることはなんですか。

160. They demonstrated it is important for us to find a way to control harmful gases

161. we put into the atmosphere.

<sub>162.</sub>(37) The ozone layer is important because it オゾン層は重要である。なぜならそれは… 酸素(さんそ) 必要(ひつよう)な

helps preserve the oxygen necessary for life. 163.

重大(じゅうだい)な 病気(びょうき)

protects us from rays that can cause 164.2serious

\_ 私達(わたしたち)に~させる 計算 (けいさん) する 総計 (そうけい) 汚染(おせん) 空気中(くうきちゅう)の

allows us to calculate the amount of pollution in the air . 165.3

stops the earth's atmosphere from being damaged by the sun. 166.4

> モントリオール議定書(ぎていしょ) ~とみられていた

167. (38) Why was the Montreal Protocol seen as a great success for the 環境保護運動(かんきょうほごうんどう)

168.environmental movement?

171 2

177.2

184.**4** 

モントリオール議定書は環境保護運動において素晴らしい成功だったのみられていたのはなぜですか。 169 政府(せいふ)が~する事(こと)を強制(きょうせい)する 研究 (けんきゅう)

It forced governments to do more research on the ozone layer. 170.1

フロンガスが~をつくった 提供(ていきょう)した 示 (しめ) す provided data showing that CFCs created the ozone hole.

注意 (ちゅうい) をひきつけた 損傷(そんしょう) 行(おこな)われている

It attracted attention to the damage being done to nature. 172.3

意見 (いけん) が一致 (いっち) した より多 (おお) くの~ 他のどの国の条約(じょうやく)より

It was agreed to be 173.4countries than any other treaty. more

法律(ほうりつ)で禁止(きんし)された

<sub>174.</sub>(39) What was one reason CFCs could be so quickly? banned

フロンガスがそれほど速く禁止された一つの理由は何ですか。 175.

心配(しんぱい)した

176. I Scientists were becoming concerned about acid rain. 現実(げんじつ)の

~を認(みと)めた

People recognized that global warming was a problem. real

有害(ゆうがい)なほどではない 利用可能(りようかのう)な

A gas that was <u>not as harmful</u> to the ozone layer was 生産(せいさん) されていた 世界中(せかいじゅう)で

They were being produced in only a few places around the world. 179.4

フロンの禁止 (きんし) The ban on CFCs was a good idea because フロンの禁止が良い案だったのは… <sub>180.</sub>(40) ~へ導 (みちび) いた 削減(さくげん)

181. **1** led to a reduction in global warming.

惑星(わくせい) 脅威 (きょうい) となるもの

182.2saved the planet from a serious threat 代替 (だいたい) フロン

183.3it reduced the amount of HCFCs in the air.

示(しめ)した どれほど 複雑(ふくざつ)な it showed how complicated nature is. P7 Lesson 19. Copyright © 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

#### Review Questions

185.1) What did the British Antarctic Survey discover

186. They discovered a huge hole in the ozone layer.

なくてはならない

187.2) Why is the ozone layer essential to life?

188. Because it protects us from harmful ultraviolet rays produced by 189. SUN.

190.3) What was the hole in the ozone layer caused by?

~と呼(よ)ばれた フロンガス

191. It was created by gasses called

192.4) What was so amazing about the Montreal Protocol?

193. It was signed by every member country of the United Nations.

194.5) What was one reason people responded so quickly to the danger?

195. 1 If the hole kept growing it would life everywhere. threaten

取(と)り替(か)える the CFCs with HCFCs which do much 196. 2 It was easy to replace damage.

197.6) What are problems with HCFCs?

助長 (じょちょう) する

198. They contribute to global warming and they may be a major factor in the 199. development of acid rain.

200.7) What would have happened had the ban not happened?

201. It would have quickly grown to cover the whole planet.

202.8) What did the HCFCs demonstrate?

203. They demonstrated it is important for us to find a way to control harmful gases 204. we put into the atmosphere

解答: (37) 2 (38) 4 (39) 3 (40) 2





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