P1 | Lesson 5. 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 For Teachers: Please have the students read the sentences one at a time and correct their pronunciation of each sentence then have them repeat after you. Wait until after they read the sentence (use the number in place of the missing word) to have the students choose the correct answer to fill in the blank. When the students finish the article, move on to the further questions. 日本語訳なしタイプBもございます。スクロールダウンするとございますのでお好きな方をご利用下さ い。 砂漠(さばく) 4[C] eTOC のレッスン以外で使用禁止 10.2(4C)A2E – Desert Power 地球温暖化(ちきゅうおんだんか) 政府 (せいふ) 悪化(あっか)して 1. As the problem of global warming gets , governments around the worse 作(つく)り出(だ)されている ドイツの ~を提案(ていあん)する -した 3. being produced. Now, a group of 20 German companies have come up with a 提供 (ていきょう) する 電力(でんりょく) 4. plan to use the Sahara Desert in North Africa to provide clean electricity 創設 (そうせつ) -によれば 5. to Europe. According to Gerhard Knies of the Desertec Foundation, which is 運営(うんえい)している 計画(けいかく) ~以内(いない)で 受(う)け取(と)る " Within the project, six hours, deserts more receive running 使(つか)い果(は)たす 人類(じんるい) 7. energy from the sun than humankind can within a year. consume 創造 (そうぞう) する electricity in a way that 8. "The companies hope to use this energy to create 環境(かんきょう) harm 9. will not the environment. 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. 10.1) Why have governments been looking for ways to cut the amount of carbon dioxide being produced? なぜ政府は二酸化炭素の排出を削減する方法を探しているのですか。 11. They are looking to cut it, because global warming is getting worse. 12.2) How much energy do deserts receive from the sun? 砂漠はどのくらいのエネルギー資源を太陽から得ていますか。 14. They receive more energy than humankind can consume within a year. 太陽熱(たいようねつ) energy, they usually think of 15. When people think of solar 太陽電池板(たいようでんちばん) 直接(ちょくせつ)に 転換 (てんかん) する solar panels , which sunlight convert directly into electricity. 基金(ききん) 計画 (けいかく) する 列 (れつ) 17. The Desertec plan is different. The foundation plans to build a line of 発電所(はつでんしょ) ~を使うことによって 18. solar power stations in the desert. Solar power stations work by using the 蒸気(じょうき) 蒸気(じょうき) その時には 19. strong desert sunlight to turn water into steam. This steam then 回転(かいてん)させる タービン turbines to create electricity. Solar power stations are not new, and four 20.turns ずっと作(つく)り出(だ)している 21. stations like the ones Desertec plans to build have been producing electricity in the 10年間(ねんかん) しかしながら 22. desert in California for the last two decades . Desertec, however, plans to build

23.many more solar power stations and send the electricity $\sim b^{\circ}b^{\circ}f(\sigma(x))$ by (z) such that $\sum_{\substack{n \geq 24. \\ n \geq 24. \\$

P2 | Lesson 5. 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 ^{動力 (どうりょく)} きかい うご ちから 25.power lines=機械を動かす力 $y = z^{-z^{-}}$ turbines= 流水、蒸気、ガスの力で回転する原動機 Further Questions&A 26.3) How is the Desertec plan different from most solar energy plans? 多くの太陽光発電の計画とDesertecの計画の相違点は何ですか。 27.28. They will build solar power stations *instead of* solar panels. ~のような 使 (つか) われてきた 29.4) How long have power stations like the ones Desertec wants to use been used ? 30. Desertec が使用したいと望んでいるような 発電所 はどのくらい使われていますか。 過去(かこ)~年間(ねんかん) 31. Solar energy stations have been used in California <u>for the past</u> two decades. 32. According to Desertec, solar power stations have many good points ~と比(くら)べて ~することができる 33 compared with solar panels. They are able to produce electricity in much より多(おお)い 分量(ぶんりょう) 備蓄(びちく)する ^{34.} larger quantities, and they are also able to the sun's heat, store するのを可能(かのう)にする と同(おな)じように electricity to be produced at night as well as during the day. allowing 35. ~と比例(ひれい)して その上(うえ) (やす) い ³⁶.Moreover, the power stations are much cheaper to build relative to the 企画 (きかく) 37.amount of electricity they produce. Desertec says that its project could 供給 (きょうきゅう) する 電気 (でんき) ~までに 15 percent of Europe's electricity by 2050. provide 38. Further Questions&A 電気(でんき)の 需要(じゅよう) 39.5) What percentage of Europe's electrical needs can the project provide? 40. ヨーロッパの何パーセントの電気の需要をこの計画は供給できますか。 41. It could provide 15 percent of Europe's electricity by 2050. 支 (ささ) える 計画 (けいかく) ~ではない 42. Not everybody support the new plan . Some say that it would be better to 住宅(じゅうたく) 集中(しゅうちゅう)する 43. concentrate on producing solar panels for houses in Europe. 44. Others say that the power stations will need too much water. Desertec, however, ~からもたらされた 45. says that water would be brought from the ocean and that electricity would be 取(と)り除(のぞ)く 塩分 (えんぶん) from this water. Some of this water could 46.used to the salt remove 地元(じもと)の 農家(のうか) 作物 (さくもつ)

47. then be used by $\log \left(\sum_{\substack{\substack{k \neq 0 \\ \forall k \neq 0 \\ \forall k$

Further Questions&A

- 50.6) Why do some people not support Desertec's plans? (Pick up the sentence from the paragraph.) 51. なぜ何人かの人々はDesertecの計画を支持していないのですか。
- 52. Some say that it would be better to concentrate on producing solar panels, others say the power stations will need too much water.
- 53.7) How could people who live in the countries where the stations are built profit from the plan? どのようにして発電所の地域に住む人々が計画から利益を得られますか。
 54. Desertec would remove the salt from water and give some to the local farmers.

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*Choose the correct answer from these choices.

55.**(41)** The Desertec Foundation aims to

Desertec基金は…にめざしている。

励(はげ)ます encourage a group of 20 German companies to clean up the Sahara Desert. 56.**1**

57.2~なしで 損害 (そんがい)を与える 環境(かんきょう) 砂漠(さばく) 与(あた)える

- use the desert sun to provide energy without damaging the environment. 58.3 減 (へ) らす 全体(ぜんたい)の総額(そうがく)
- find a way to lessen the amount of electricity that people **59.4** total 消費(しょうひ)する 毎年(まいとし) each year. consume

_{60.}(42) How will Desertec's solar power stations create electricity?

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61.Desertecの太陽熱発電所はどのように電気を作り出しますか。
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- 板 (いた) By using solar panels to make electricity from sunlight. $\sim E \operatorname{max}(h h a \circ) = f \operatorname{scl}(h a \circ)$ 62.**1**
- タービン 63.**2** By heating water to make steam that will turn turbines.
- By sending hot water from the Sahara Desert to Europe. 64.**3**
- 結(むす)びつけることによって By connecting Africa's power system with the one in California. 65.**4**

違 (ちが) い What is one difference between solar panels and solar power stations?

- 太陽電池板と太陽熱発電所の一つの違いは何ですか。 67.
- Solar panels can heat larger quantities of water. 68. **1**
- 69.**2** Solar panels are able to produce much more energy.
- 普通(ふつう)の 70. $\mathbf{3}$ Solar power stations are more common in Europe.
- 続(つづ)ける Solar power stations continue to work after dark. 71.**4**

72.**(44)** According to Desertec Desertec CL32-費用 (ひよう)

- of solar panels is too high for many people in Europe. 73.1 the cost
- 地方(ちほう)の 作物(さくもつ) people by providing water for the project will help 74.2local crops
- 必要(ひつよう)とする 正確(せいかく)に
- large amounts of salt to work 75.**3** the power stations will require properly. 無料(むりょう)の
- the countries where the power stations are built will get 76.**4** free electricity.

次に述(の)べる事柄(ことがら)

77.**(45)** Which of the following statements about Desertec's plan is true?

- Desertec の計画について次に述べるどの事柄は真実ですか。 78.
- ~に似(に)ている ~で運営(うんえい)しているもの The power station will be similar to ones operating in California. 79.**1**
- ~を熱(ねっ)するため Electricity from the power stations will be used <u>to heat</u> water at night. 80.**2**
- ほとんどの The power stations will provide most of Europe's electricity by 2050. 81.**3**
- Some people say that the power stations should be built in Europe. 82.**4**

Review Questions

66.**(43)**

- P4 | Lesson 5. 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
- 83.1) Why have governments been looking for ways to cut the amount of carbon dioxide being produced?
- 84. They are looking to cut it, because global warming is getting worse.
- 85.2) How much energy do deserts receive from the sun?
- 86. They receive more energy than humankind can consume within a year.

87.3) How is the Desertec plan different from most solar energy plans? 88. They will build solar power stations instead of solar panels.

- 89.4) How long have power stations like the ones Desertec wants to use $\frac{\phi(\gamma h)}{bh\tau \delta t}$ been used ?
- 90. Solar energy stations have been used in California for the past two decades.

91.5) What percentage of Europe's electrical needs can the project provide? 92. It could provide 15 percent of Europe's electricity by 2050.

- 93.6) Why do some people not support Desertec's plans?
- 94. Some say that it would be better to concentrate on producing solar panels, others say the power stations will need too much water.
- 95.7) How could people who live in the countries where the stations are built profit from the plan?
- 96. Desertec would remove the salt from water and give some to the local farmers.

解答: (41)3 (42) 2 (43) 4 (44) 2 (45) 1

Type B 日本語訳なし eTOC のレッスン以外で使用禁止 10.2(4C)A2E 4[C] - Desert Power eTOC のレッスン以外で使用禁止 10.2(4C)A2E

- 1. As the problem of global warming gets worse, governments around the world are
- 2. looking for ways to cut the amount of carbon dioxide being produced. Now, a
- 3. group of 20 German companies have <u>come up with</u> a plan to use the Sahara
- 4. Desert in North Africa to provide clean electricity to Europe. According to
- 5. Gerhard Knies of the Desertec Foundation, which is running the project, "Within
- 6. six hours, deserts receive more energy from the sun than humankind can
- 7. consume within a year." The companies hope to use this energy to create
- 8. electricity in a way that will not harm the environment.

Further Questions&A

- 9. 1) Why have governments been looking for ways to cut the amount of carbon dioxide being produced?
- 10.2) How much energy do deserts receive from the sun?
- ¹¹.When people think of solar energy, they usually think of <u>solar panels</u>, which convert sunlight directly into electricity. The Desertec plan is different. The ¹² foundation plans to build a line of solar power stations in the desert
- 12 foundation plans to build a line of solar power stations in the desert.

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13.Solar power stations work by using the strong desert sunlight to turn water into
14.steam. This steam then turns turbines to create electricity. Solar power stations are
15.not new, and four stations like the ones Desertec plans to build have been producing
16.electricity in the desert in California for the last two decades. Desertec, however, plans
17.to build many more solar power stations and send the electricity produced from the
18.Sahara Desert to Europe through power lines.

Further Questions&A

19.3) How is the Desertec plan different from most solar energy plans?
20.4) How long have power stations like the ones Desertec wants to use <u>been used</u>?

21.According to Desertec, solar power stations have many good points <u>compared</u> 22 with solar panels. They are able to produce electricity in much larger quantities, 23 and they are also able to store the sun's heat, allowing electricity to be produced 24 at night as well as during the day. Moreover, the power stations are much 25 cheaper to build relative to the amount of electricity they produce. Desertec says 26 that its project could provide 15 percent of Europe's electricity by 2050.

Further Questions&A

27.5) What percentage of Europe's electrical needs can the project provide?

28.Not everybody support the new plan. Some say that it would be better to 29.concentrate on producing solar panels for houses in Europe. Others say that the 30.power stations will need too much water. Desertec, however, says that water 31.would be brought from the ocean and that electricity would be used to remove 32.the salt from this water.Some of this water could then be used by local farmers 33.for growing crops. In this way, the people in the countries where the stations 34.are built would also profit from the plan.

Further Questions&A

35.6) Why do some people not support Desertec's plans?

^{36.7}) How could people who live in the countries where the stations are built profit from the plan?

*Choose the correct answer from these choices.

37.(41) The Desertec Foundation aims to

- ^{38.1} encourage a group of 20 German companies to clean up the Sahara Desert.
- ^{39.2} make use of carbon dioxide found in North Africa to produce clean energy.
- ^{40.3} use the desert sun to provide energy without damaging the environment.
- 41.4 find a way to lessen the total amount of electricity that people consume each year.

42.(42) How will Desertec's solar power stations create electricity?

- 43.1 By using solar panels to make electricity from sunlight.
- 44.2 By heating water to make steam that will turn turbines.
- ^{45.}**3** By sending hot water from the Sahara Desert to Europe.
- 46.4 By connecting Africa's power system with the one in California.

47.(43) What is one difference between solar panels and solar power stations?

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- 48.1 Solar panels can heat larger quantities of water.
- 49.2 Solar panels are able to produce much more energy.
- 50.3 Solar power stations are more common in Europe.
- 51.4 Solar power stations continue to work after dark.

52. (44) According to Desertec

- 53.1 the cost of solar panels is too high for many people in Europe.
- ^{54.}2 the project will help local people by providing water for crops.
- 55.3 the power stations will require large amounts of salt to work properly.
- ^{56.}**4** the countries where the power stations are built will get free electricity.

^{57.}(45) Which of the <u>following statements</u> about Desertec's plan is true?

- ^{58.1} The power station will be <u>similar to ones operating</u> in California.
- ^{59.2} Electricity from the power stations will be used <u>to heat</u> water at night.
- 60.3 The power stations will provide most of Europe's electricity by 2050.
- 61.4 Some people say that the power stations should be built in Europe.

Review Questions

- 62.1) Why have governments been looking for ways to cut the amount of carbon dioxide being produced?
- 63.2) How much energy do deserts receive from the sun?
- 64.3) How is the Desertec plan different from most solar energy plans?
- 65.4) How long have power stations like the ones Desertec wants to use been used?
- 66.5) What percentage of Europe's electrical needs can the project provide?
- 67.6) Why do some people not support Desertec's plans?
- 68.7) How could people who live in the countries where the stations are built profit from the plan?

解答: (41)3 (42) 2 (43) 4 (44) 2 (45) 1



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