

Further Questions& Sample Answers

38. **5)-32** How does Anthony Brennan's invention work?
39. *The small bumps like on a shark skin are difficult for small creatures like bacteria to*
40. *live on.*
41. _____
42. Eventually, he created a plastic layer on which patterns like those on shark skin are
43. printed.
44. Experiments have shown that bacteria find it very hard to live on these patterns.
45. Brennan hopes that hospitals will use his plastic layer to cover surfaces where bacteria
46. usually gather.
47. If his idea succeeds, this will be a good example of how much we human
48. beings can (**33**) from nature.

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

49. **(33)** 1 remove 2 guard 3 learn 4 explain

Further Questions& Sample Answers

50. **6)-33** How does Brennan imagine hospitals using his invention?
51. *They can put a layer of his plastic on areas where bacteria tend to collect.*

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63. **1** He is always angry and brooding, he has a bad **attitude**.
64. **2** He wanted to eat breakfast, but then he would **risk** being late.
65. **3** She made a **promise** to meet me, but she never came.
66. **4** What is the **meaning** of this word?
67. **(31)**
68. **1** Away from the city where it is **dark**, you can see the stars better.
69. **2** She can touch the ground while standing, she is very **flexible**.
70. **3** The car was bumping because the road was very **rough**.
71. **4** I must **clean** my room more often.

72. **(32)**
73. **1** I look **similar** to my brother.
74. **2** I will show you some **basic** computer skills before we try anything hard.
75. **3** Food in America is **cheap** compared to Japan.
76. **4** Water is the most common **liquid** on earth.



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77. (33)
78. 1 It is hard to **remove** the sticker from the book without ripping it.
79. 2 I bought a new alarm system to **guard** my car.
80. 3 You come here to **learn** English.
81. 4 Can you **explain** what this sentence means?

Answers for "Vocabularies"

82. (30) 1 attitude 2 risk 3 promise 4 meaning
83. (31) 1 dark 2 flexible 3 rough 4 clean
84. (32) 1 similar 2 basic 3 cheap 4 liquid
85. (33) 1 remove 2 guard 3 learn 4 explain

Review Questions

86. 1)-30 What is the major problem many hospitals have that is mentioned in this article?
87. *There're a lot of bacteria in hospitals which can make people more sick while there than they were when they entered.*
88. 2)-31 What was Anthony Brennan studying when he created his invention that might

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96. *They can put a layer of his plastic on areas where bacteria tend to collect.*
97. 7)-33 Do you think his invention will be successful at eliminating bacteria in hospitals?
98. *No, I don't think so. It sounds like his invention isn't flexible enough for it to cover all the necessary surfaces. But it might help reduce the bacteria.*
99. 8)-33 Where else could his invention be used that have problems with bacteria?
100. *It might be possible for it to be used in schools and maybe it can be put on doorknobs and bathroom doors where bacteria can also be a problem.*

解答: (30) 2 (31) 4 (32) 1 (33) 3

日本語訳付

3[B] – Patterns of Hope



Lesson12 G2 Chobun dokkai

11.1(3B)A2E

102. One ^{重大 (じゅうだい) な} major ^{希望 (きぼう)} problem for hospitals is ^{たくさんの～} the number of ^{患者 (かんじゃ)} patients who catch ^{病気 (びょうき)} dangerous ^{～の間 (あいだ) に} diseases while they are being ^{治療 (ちりょう) される} treated for other problems.
103. These diseases are ^{病気 (びょうき)} caused by ^{～が原因 (げんいん) である} the ^{細菌 (さいきん)} bacteria that live in hospitals and get into ^{患者 (かんじゃ) の} patients' bodies.
104. The ^{通常 (つうじょう) の} usual way to ^{～を扱 (あつか) う} deal with these bacteria has been to use ^{細菌 (さいきん)} medicines or ^{薬 (くすり)} chemicals to try to kill them.
105. Unfortunately, this ^{残念 (ざんねん) なことに} method can have the ^{方法 (ほうほう)} opposite effect and ^{逆 (ぎゃく) の 効果 (こうか)} actually ^{実際 (じっさい) に} cause ^{～の原因 (げんいん) となる} the bacteria to become ^{細菌 (さいきん)} stronger.
106. Now, Anthony Brennan, a ^{科学者 (かがくしゃ)} scientist at the University of Florida, has ^{考 (かんが) えつく} come up with ^{減 (へ) らす 細菌 (さいきん)} a new way to reduce bacteria in hospitals—one that could help ^{避 (さ) ける} avoid this (30).

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120. Overtime, a ^{減 (へ) らす} thick layer of them can ^{動 (うご) く} develop, and this both damages the ship ^{生物 (せいぶつ)} and reduces the speed at which they can ^{対処 (たいしょ) する} travel.
121. Brennan began thinking about how sea ^{生物 (せいぶつ)} creatures ^{対処 (たいしょ) する} deal with the same problem.
122. Most of those that move slowly, such as whales and turtles, do ^{事実上 (じじつじょう)} in fact become ^{～で覆 (おお) われて 層 (そう)} covered by such a layer.
123. Slow-moving sharks though have skin that ^{～のままている} remains (31).



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

124. (31) 1 dark 2 ^{柔軟 (じゅうなん) な} flexible 3 ^{乱暴 (らんぼう) な} rough 4 clean

Further Questions& Sample Answers

127. 2)-31 What was Anthony Brennan studying when he ^{作り出した} created his ^{発明 (はつめい)} invention that might help hospitals? Anthony Brennan ^{ひょういん} が ^{すく} 病院 ^{こと} を ^し 救う ^し 事が ^{はつめい} できる ^{とき} かも知れない ^{かれ} 発明 ^{なに} を ^な した ^{べんきょう} 時、彼は ^{勉強 (べんきょう) していましたか。} 何を ^{作 (つく) り出 (だ) す} trying to create a way to keep sea life off of the bottoms of ships.
128. He was trying to create a way to keep sea life off of the bottoms of ships.

129. **3)-31** Why are small animals and plants building up on ships bad for the ship?
~に集積 (しゅうせき) する

130. 小さい動物と植物が船に集積することはなぜ船にとって悪い事なのですか。
ちい とうぶつ しよくぶつ ふね しゅうせき ふね わる こと
遅 (おそ) くする 破壊 (はかい) する 船体 (せんたい)

131. They *slow the ship down and slowly destroy the hull of the ship.*

132. **4)-31** Do whales and turtles have problems with the small creatures building up on them?

133. クジラとカメは小さい生物が彼らに集積することに問題がありますか。
ちい せいぶつ かれ しゅうせき もんだい
発達 (はったつ) させる 付着 (ふちやく) した

134. Yes, they often *develop a layer of these creatures attached to their skin or shells.*

136. When Brennan examined these sharks closely, he discovered that this was because
調 (しら) べた 詳 (くわ) しく 発見 (はっけん) した
137. of pattern of tiny bumps on their skin.
ちっちゃな 突起 (とつき)

138. These patterns make it hard for the small creatures and plants to stick to the skin.
くつつく

139. Brennan decided to create a (**32**) surface that could be used in hospitals.
決 (き) めた 表面 (ひょうめん)

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

140. **(32)** 1 **similar** 2 **basic** 3 **cheap** 4 **liquid**
似 (に) ている 基本的 (きほんてき) な 液体 (えきたい)

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150. If his idea succeeds, this will be a good example of how much we human beings can
成功 (せいこう) する
151. (**33**) from nature.

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

152. **(33)** 1 **remove** 2 **guard** 3 **learn** 4 **explain**
取 (と) り除 (のぞ) く 守る 学 (まな) ぶ 説明 (せつめい) する

Further Questions & Sample Answers



155. **6)-33** How does Brennan imagine hospitals using his invention?
考 (かんが) える

156. Brennan は病院が彼の発明をどのように使用すると考えていますか。
びょういん かれ はつめい しょう かんが

157. They can put a layer of his plastic on areas where bacteria tends to collect.
~しがちである 集 (あつ) まる

158. **7)-33** Do you think his invention will be successful at eliminating bacteria in hospitals?
取 (と) り除 (のぞ) く

159. あなたは彼の発明が病院内のバクテリアを取り除くことに成功すると思いますか。
かれ はつめい びょういんない と のぞ せいこう おも

160. No, I don't think so. It sounds like his invention isn't flexible enough for it to
柔軟性 (じゅうなんせい) のある
cover all the necessary surfaces. But it might help reduce the bacteria.
減 (へ) らす

161. **8)-33** Where else could his invention be used that have problems with bacteria?

162. バクテリアの問題を抱える場所で病院の他に彼の発明を使えるところがありますか。

163. *It might be possible for it to be used in schools and maybe it can be put on doorknobs*
 164. *and bathroom doors where bacteria can also be a problem.*

Vocabularies: Try to memorize these words yourself without looking at the Japanese translations.

For Teachers: Have the student read the word in English, correct their pronunciation then say it together. Then have the student say it in Japanese before saying again in English. After you have done this for each line, go back to the first word and have the student translate it.

- | | | | | |
|------------------|------------|------------|-----------|-----------|
| 165. (30) | 1 attitude | 2 risk | 3 promise | 4 meaning |
| 166. (31) | 1 dark | 2 flexible | 3 rough | 4 clean |
| 167. (32) | 1 similar | 2 basic | 3 cheap | 4 liquid |
| 168. (33) | 1 remove | 2 guard | 3 learn | 4 explain |

Example sentences: *It must take a long time but Try to use these vocabularies one by one in the sentences of your original one. Teacher must show them your for example sentence before ask.

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179. **3** Food in America is **cheap** compared to Japan.

180. **4** Water is the most **common** **liquid** on earth.

181. **(33)1** It is hard to **remove** the sticker from the book without **ripping** it.

182. **2** I bought a new alarm system to **guard** my car.

183. **3** You come here to **learn** English.

184. **4** Can you **explain** what this sentence means?

Answers for "Vocabularies"

- | | | | | |
|------------------|-----------------------------|----------------------------|------------------------|---------------------------|
| 185. (30) | 1 attitude
態度 (たいど) | 2 risk
危険 (きけん) | 3 promise
約束 (やくそく) | 4 meaning
意味 (いみ) |
| 186. (31) | 1 dark
暗 (くら) い | 2 flexible
柔軟 (じゅうなん) な | 3 rough
乱暴 (らんぼう) な | 4 clean
清潔 (せいけつ) な |
| 187. (32) | 1 similar
似 (に) ている | 2 basic
基本的 (きほんてき) な | 3 cheap
学 (まな) ぶ | 4 liquid
液体 (えきたい) |
| 188. (33) | 1 remove
取 (と) り除 (のぞ) く | 2 guard
守 (まも) る | 3 learn
学 (まな) ぶ | 4 explain
説明 (せつめい) する |

Review Questions



述 (の) べられて

189. **1)-30** What is the major problem many hospitals have that is mentioned in this article?

190. *There are a lot of bacteria in hospitals which can make people more sick while there than they were when they entered.*

191. **2)-31** What was Anthony Brennan studying when he created his invention that might help hospitals?

192. *He was trying to create a way to keep sea life off of the bottoms of ships.*

193. **3)-31** Why are small animals and plants building up on ships bad for the ship?

194. *They slow the ship down and slowly destroy the hull of the ship.*

195. **4)-31** Do whales and turtles have problems with the small creatures building up on

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201. **7)-33** Do you think his invention will be successful at eliminating bacteria in hospitals?

202. *No, I don't think so. It sounds like his invention isn't flexible enough for it to cover all the necessary surfaces. But it might help reduce the bacteria.*

203. **8)-33** Where else could his invention be used that have problems with bacteria?

204. *It might be possible for it to be used in schools and maybe it can be put on doorknobs and bathroom doors where bacteria can also be a problem.*

解答: (30) 2 (31) 4 (32) 1 (33) 3



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