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.

3[B] – <u>Patterns of Hope</u>

11.1(3B)A2E

重大(じゅうだい)な たくさんの~ 患者(かんじゃ) problem for hospitals is the number of patients who catch 1. One major 病気(びょうき) ~の間(あいだ)に 治療(ちりょう)される they are being for other problems. dangerous diseases while treated 病気(びょうき) ~が原因(げんいん)である 細菌(さいきん)

2. These diseases are caused by the bacteria that live in hospitals and get into ~を扱(あつか)う 通常 (つうじょう) の 細菌(さいきん) 患者(かんじゃ)の patients' bodies. The way to deal with these bacteria has been to use usual 薬(くすり) 化学薬品(かがくやくひん) to try to kill them. medicines or chemicals

残念(ざんねん)なことに 方法(ほうほう) 逆(ぎゃく)の 効果(こうか) 実際(じっさい)に Unfortunately, this method can have the opposite effect and actually ~の原因(げんいん)となる 細菌(さいきん) より強(つよ)く cause the bacteria to become stronger.

科学者(かがくしゃ) き(かんが)えつく Anthony Brennan, a scientist at the University of Florida, has come up with 滅(へ)らす 細菌(さいきん) a new way to reduce bacteria in hospitals—one that could help avoid this (30)

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

5. **(30)** 1 attitude

危険(きけん) **2 risk**

3 promise

意味(いみ) 4 meaning

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.

が(の)べられて 記事(きじ) 6.1)-30 What is the major problem many hospitals have that is mentioned in this article?

7. この記事で述べられているたくさんの「病院」が抱える問題とはなんですか。

そこにいる間(あいだ)に

- 8. There are a lot of bacteria in hospitals which can make people more sick <u>while there</u> than they were when they entered.
- 10. Brennan first thought of his idea when he was working with the United States Navy.
- 11. The Navy was looking for a way to prevent tiny animals and plants from df (ふちゃく) している attaching themselves to ships. そのうち 厚(あつ)い 層(そう) 発達(はったつ)する

12. Overtime, a thick layer of them can develop, and this both damages the ship 動(うご) < and reduces the speed at which they can travel.

- 生物(せいぶつ) 対処(たいしょ)する
 13. Brennan began thinking about how sea creatures deal with same problem.

 事実上(じじつじょう)
- 14. Most of those that move slowly, such as whales and turtles, do in fact become ~で覆(まお) われて 層(そう) ~のままでいる covered by such a layer. Slow-moving sharks though have skin that remains (31).

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

Further Questions&A 作り出した 16.2)-31 What was Anthony Brennan studying when he created his invention that might help hospitals? Anthony Brennan が 病院 を救う事ができるかも知れない発明をした時、彼は何を 勉強していましたか。 作(つく)り出(だ)す a way to keep sea life off of the bottoms of ships. 17. He was trying to create ~ に集積 (しゅうせき) する 18.3)-31 Why are small animals and plants building up on ships bad for the ship? 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選い事なのですか。 破壊(はかい)する the ship down and slowly destroy the hull of the ship. Slow 21. 4)-31 Do whales and turtles have problems with the small creatures building up on them? 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。 発達(はったつ)させる a layer of these creatures 23. Yes, they often attached to their skin or develop shells. 調(しら)べた 詳(くわ)しく 発見(はっけん)した 24. When Brennan examined these sharks closely, he discovered that this was ちっちゃな 突起(とっき) because of pattern of tiny bumps on their skin. 25. These patterns make it hard for the small creatures and plants to stick to the skin. 表面(ひょうめん) that could be used in hospitals. 26. Brennan decided to create a (32 surface *Choose the correct answer to fill in the blank from these choices 基本的(きほんてき)な 似(に)ている 液体 (えきたい) 27. **(32) 1** 2 similar basic liquid cheap Further Questions&A 発明(はつめい) 28.5)-32 How does Anthony Brennan's invention work Anthony Brennan の発明はどのようにして作用しますか。 30. The small bumps like on a shark skin are difficult for small creatures like bacteria to live on. ついに 作(つく)り出(だ)した a plastic layer on which patterns like those on shark 31. Eventually, he created skin are printed. 実験(じっけん) 細菌(さいきん) 32. Experiments have shown that bacteria find it very hard to live on these patterns. 33. Brennan hopes that hospitals will use his plastic layer to cover surfaces where 成功(せいこう)する bacteria usually gather. If his idea succeeds, this will be a good example of how much we human beings can (33) from nature. *Choose the correct answer to fill in the blank from these choices. 取(と)り除(のぞ)く 学(まな)ぶ 説明(せつめい)する 守る 34. **(33)** 1 learn explain remove guard 36. Further Questions&A 考(かんが)える 37.6)-33 How does Brennan imagine hospitals using his invention?

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。

39. They can put a layer of his plastic on areas where bacteria tends to collect.

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。

40.7)-33 Do you think his invention will be successful at eliminating bacteria in hospitals?

11.1(3B)A2E P2

取(と)り除(のぞ)く

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

- 43.8)-33 Where else could his invention be used that have problems with bacteria?
- 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はありますか。

ドアノブ 45. 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.

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.

| 46. (30) 1 | attitude | 2 | risk | 3 | promise | 4 | meaning |
|-------------------|----------|---|----------|---|---------|---|---------|
| 47. (31) 1 | dark | 2 | flexible | 3 | rough | 4 | clean |
| 48. (32) 1 | similar | 2 | basic | 3 | cheap | 4 | liquid |
| 49. (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.

- むっつりした 50. **(30)1** He is always angry and brooding, he has a bad attitude.
- 危(あや)うくする He wanted to eat breakfast, but then he would 51. 2 being late. risk
- 52.3 She made a **promise** to meet me, but she never came.
- What is the **meaning** of this word? 53.4
- Away from the city where it is dark, you can see the stars better.
- She can touch the ground while standing, she is very flexible. 55. 2
- がたがた進(すす)んで The car was because the road was very rough. 56.3 bumping
- I must clean my room more often. 57.4
- I look **similar** to my brother.
- I will show you some **basic** computer skills before we try anything hard. 59. 2
- ~と比較(ひかく)して Food in America is cheap compared to Japan. 60.3
- 共通(きょうつう)の Water is the most liquid on earth. common
- It is hard to **remove** the sticker from the book without ripping 62. **(33)1**
- I bought a new alarm system to guard my car.
- You come here to learn English. 64. 3
- Can you explain what this sentence means?

Answers for "Vocabularies"

| 66. (30) 1 | ^{態度(たいど)} attitude | 2 | 危険(きけん) risk | 3 | _{約束(やくそく)} promise | 4 | ^{意味(いみ)} meaning |
|-------------------|--------------------------------|---|------------------------|---|--------------------------------|---|-------------------------------|
| 67. (31) 1 | 暗(くら)い dark | 2 | 柔軟(じゅうなん)な flexible | 3 | il暴(らんぼう)な rough | 4 | 清潔(せいけつ)な Clean |
| 68. (32) 1 | 似(に)ている similar | 2 | 基本的(きほんてき)な basic | 3 | cheap | 4 | ^{液体(えきたい)} liquid |

取(と)り除(のぞ)く 説明(せつめい)する 守(まも)る 学(まな)ぶ 69. **(33)** 1 remove quard learn explain

Review Questions

70.1)-30 What is the major problem many hospitals have that is mentioned in this article?

そこにいる間(あいだ)に

- 71. There are a lot of bacteria in hospitals which can make people more sick while there than they were when they entered.
- 作り出した 発明(はつめい) 72.2)-31 What was Anthony Brennan studying when he created his invention that might help hospitals?
- 作(つく)り出(だ)す 73. He was trying to a way to keep sea life off of the bottoms of ships. create
- ~に集積(しゅうせき)する 74.3)-31 Why are small animals and plants building up on ships bad for the ship? 破壊(はかい)する 75. *They* the ship down and slowly destroy the hull of the ship. slow
- 76.4)-31 Do whales and turtles have problems with the small creatures building up on them?
- 発達(はったつ)させる a layer of these creatures 77. Yes, they often attached to their skin or develop shells.
- 発明(はつめい) 78.5)-32 How does Anthony Brennan's invention work?
- 79. The small bumps like on a shark skin are difficult for small creatures like bacteria to live on.
- 80.6)-33 How does Brennan imagine hospitals using his invention?
- ~しがちである 集(あつ)まる 81. They can put a layer of his plastic on areas where bacteria tends to collect.
- 取(と)り除(のぞ)く 82.7)-33 Do you think his invention will be successful at eliminating bacteria in hospitals?
- 柔軟性(じゅうなんせい)のある 83. No, I don't think so. It sounds like his invention isn't enough for it to flexible cover all the necessary surfaces. But it might help reduce the bacteria.
- 84.8)-33 Where else could his invention be used that have problems with bacteria?

85. 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

| 346 | きんにく 筋 肉 | muscle | | | | | マル |
|-----|--------------------------------------|------------|------|-------|-----|-------------|-----------------------|
| 347 | がは 成績、~を採点 する | grade | | | | | グレイド |
| 348 | ひどい | terrible | | | | | テ リブル |
| 349 | ~がわかる、~を | recognize | | | | | ィコク゛ナイス゛ |
| 350 | が合のい、使利 な | convenient | | | | <i>t</i> tv | グイエント |
| 351 | 患者 | patient | | | | | ペイシェント |
| 352 | ~ を 下げる ~ を 下げる | lower | | | 用禁止 | | □ ゥアー |
| 353 | sh.tth sh.l.h 安全、安心、 けいび 警備 | security | | 生以外13 | | > | キュディ |
| 354 | まいしょ げんさく 最初、原作の | original | 一个生徒 | 173 | | | オ <mark>リ</mark> ヂ ナル |
| 355 | いわう きねん ~ を祝う、記念す る | celebrate | 90- | | | 1 | セレブレイト |
| 356 | さいぶ ささいなこ | detail | | | | | ディテル |
| 357 | ふそく 不足、~がない | lack | | | | | ラック |
| 358 | ~を出版する | publish | | | | | בלו 'ל') |
| 359 | ~のように思わ れる、~らしい | seem | | | | | ス ィ-ム |
| 360 | ~を要 求する | claim | | | | | クレイム |

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