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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。

4[B] - Robot Manners

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As robot As robot As robot improves, robots are becoming an increasingly important at technology for the first are determined at the first a

part of our daily lives . Robots, of course, have many advantages over $-\frac{1}{2}(\log \log n)$ $\frac{1}{2}$ $\frac{1}{$

3. <u>human beings</u>. They work hard, never need to rest , do not complain , and ** はいこう する は事(しごと) は事(しごと)

5. possible for human workers to <u>focus on</u> jobs that <u>require</u> more skill. Yet

6. as more robots enter the work place, their creators face a new っの仕方 (しかた) っするために っするために うまくやっていく

7. problem— how to design them so that human beings can get along with them.

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.

- 8. 1) What are some advantages of using robot workers over human workers?
- 9. 人間の労働者を超えてロボットを使う利点は何ですか。
- 10. Robots will work harder, do not need to rest and do not need to be paid.
- 12. the United States. TUG is a box-like robot on wheels that is able to carry things, はは はば える すべての
- 13. push carts, and deliver messages. TUG is programmed to remember all the $\frac{1}{4}$ the $\frac{1}{4}$
- 14. places in a hospital. When a nurse wishes to send something to another nurse, 例 (たと) えば ~の代 (か) わりに 無駄 (むだ) な
- 15. <u>for example</u>, <u>instead of</u> having to waste time carrying it, he or she puts it on TUG, 選 (えら) ぶ 目的地(もくてきち)
- 16. selects the destination, and the robot goes there on its own.

許(ゆる)す 労働者(ろうどうしゃ)

17. Hospital managers like TUG because it allows hospital workers to 全力 (ぜんりょく) を注 (そそ) ぐ 本来 (ほんらい)

18. concentrate on the jobs they were originally trained to do.

Further Questions&A

- 19. 2) What is TUG? TUGは何ですか。
- 20. TUG is a robot designed for bringing items from one place to another in a building so that people can concentrate on their own jobs.
- 21. **3)** What kind of things does TUG do? TUG はどのような筆をしますか。
- 22. TUG can carry items, push carts and deliver messages and remember how to find its way through the building.
- 23. 4) How does a person use TUG? どのように TUG を使いますか。
- 24. They put the item on the robot and select where they want it to go.

- P2 | Lesson 14. 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
- Unfortunately, not all hospital workers like TUG. Bilge Mutlu, a specialist
- 26. human-robot interactions at the University of Wisconsin—Madison, studied the
- reaction of workers to TUG in one hospital. He found that many people disliked 人類(じんるい)
- of manners. For example, when a human being delivers a the robot's lack 誰 (だれ) か
- 29. message to someone who is talking on the telephone, he or she will usually wait until the person on the phone is free.
- 大声(おおごえ)で 簡単(かんたん)に 中断(ちゅうだん)する 知(し)らせる announces, "TUG has arrived." simply interrupts the call and loudly

Further Questions&A

無礼(ぶれい)な

- 5) Why do workers feel that TUG is impolite? なぜ労働者はTUGを無礼と感じるのですか。
- will interrupt them when they are on the phone and used to continue to be just as loud at night as during the day.

- 34. Aethon, the company that makes TUG, is taking Mutlu's research seriously. より 落(お) ち着(つ) いて
- 35. Aethon already programmed TUG to speak more quietly at night. However, it
- . One possible answer, being 36. is very difficult to program a robot to be polite 科学者 (かがくしゃ)
- developed by scientists at the University of Washington, in Seattle, is a program
- 計 (ゆる) す 分析 (ぶんせき) する まねる ふるまい 38. that allows robots to analyze and imitate human behavior. This will only work,
- 39. however, if the human beings that the robots copy are themselves behaving 礼儀(れいぎ)正(ただ)しく
- politely

${f Further\ Questions\&A}$

- of the team of scientists at the University of Washington 41. 6) What is the goal の記事を言及したワシントン大学の科学者のチームの自標は何ですか。 mentioned in this article?
- 42. They want robots to be able to learn human behavior and copy it.
- 7) What would you do with a robot if you had one? もしあなたがロボットを持っていたら荷がしたいですか。 食料品料(しょくりょうひんりょう)
- 44. I would want a robot that would do the shopping for me and do grocery cooking for me.
- 45. 8) What is a rule you could teach to a robot to help it be more polite?
- あなたがロボットにもっと礼儀正しくなるよう教えることができる法則は何ですか。
- 47. Call people by their own names and recognize people's moods and respond to them differently accordingly.
- What will robot designers need to do from now on?
- Pay robots for performing simple tasks. 1
- 防 (ふせ) ぐ Prevent robots from replacing human beings.
- Build robots that can concentrate on highly skilled
- Create robots that people feel comfortable working with.
- Why do people who run hospitals like TUG?

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- 1 It can guess what task it should do next.
- 55. 2 It can move easily from one hospital to another.

時間(じかん)を無駄(むだ)にする

- 56. 3 It can stop workers from wasting time on simple jobs.
- 57. 4 It can help new nurse finds their way around the hospital.
- 58. (39) Bilge Mutlu discovered that people in one hospital
- 59. 1 felt that the way TUG acted as impolite.
- 60. 2 disliked it when TUG came too close to them.
- 61. 3 refused to listen to TUG's messages.
- 52. 4 thought that TUG worked too hard.
- 63. (40) What are some scientists trying to do?
- ^{64.} 1 Use robots to teach people how to be more polite to each other.
- 65. 2 Program robots to behave more like human beings.
- 66. 3 Analyze the reasons why robots sometimes stop working.
- 67. 4 Design robots that do more work at night than they do in the day.

Review Questions

- 68. 1) What are some advantages of using robot workers over human workers?
- 69. Robots will work harder, do not need to rest and do not need to be paid.
- _{70.} 2) What is TUG?
- TUG is a robot designed for bringing items from one place to another in a building so that people can concentrate on their own jobs.
- 3) What kind of things does TUG do?
- 73. TUG can carry items, push carts and deliver messages and remember how to find its way through the building.
- 4) How does a person use TUG?
- 75. They put the item on the robot and select where they want it to go.
- 76. 5) Why do workers feel that TUG is impolite?
- TUG will interrupt them when they are on the phone and used to continue to be just as loud at night as during the day.
- 78. 6) What is the goal of the team of scientists at the University of Washington mentioned in this article?
- 79. They want robots to be able to learn human behavior and copy it.
- 80. 7) What would you do with a robot if you had one?
- 81. I would want a robot that would do the grocery shopping for me and do cooking for me.
- 82. 8) What is a rule you could teach to a robot to help it be more polite?
- 83. Call people by their own names and recognize people's moods and respond to them differently accordingly.

解答:(37)4(38)3(39)1(40)2

<mark>Type B 日本語訳なし</mark> 4[B] – Robot Manners

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- 85. our daily lives. Robots, of course, have many advantages over human beings. They
- 86. work hard, never need to rest, do not complain, and do not need to be paid.
- 87. Moreover, by performing simple tasks, they make it possible for human workers to
- 88. focus on jobs that require more skill. Yet as more robots enter the work place, their
- 89. creators face a new problem—how to design them so that human beings can get along
- 90. with them.

Further Questions&A

- 91. 1) What are some advantages of using robot workers over human workers?
- 92. A typical robot today is TUG, which is now used in more than 50 hospitals in the
- 93. United States. TUG is a box-like robot on wheels that is able to carry things, push
- 94. carts, and deliver messages. TUG is programmed to remember all the places in a
- 95. hospital. When a nurse wishes to send something to another nurse, for example,
- 96. instead of having to waste time carrying it, he or she puts it on TUG, selects the
- of destination, and the robot goes there on its own. Hospital managers like TUG because it allows hospital workers to concentrate on the jobs they were originally trained to do.

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Further Questions&A

- 99. 2) What is TUG?
- 100. 3) What kind of things does TUG do?
- 101. 4) How does a person use TUG?
- 102. Unfortunately, not all hospital workers like TUG. Bilge Mutlu, a specialist in
- 103. human-robot interactions at the University of Wisconsin—Madison, studied the
- 104. reaction of workers to TUG in one hospital. He found that many people disliked the
- 105. robot's lack of manners. For example, when a human being delivers a message to
- 106. someone who is talking on the telephone, he or she will usually wait until the person
- on the phone is free. TUG simply interrupts the call and loudly announces, "TUG has arrived."

Further Questions&A

- 109. 5) Why do workers feel that TUG is impolite?
- Aethon, the company that makes TUG, is taking Mutlu's research seriously.
- Aethon already programmed TUG to speak more quietly at night. However, it is very
- 112. difficult to program a robot to be polite. One possible answer, being developed by
- 113. scientists at the University of Washington, in Seattle, is a program that allows robots
- 114. to analyze and imitate human behavior. This will only work, however, if the human
- beings that the robots copy are themselves behaving politely.

Further Questions&A

- 116. 6) What is the goal of the team of scientists at the University of Washington mentioned in this article?
- 117. 7) What would you do with a robot if you had one?
- 118. 8) What is a rule you could teach to a robot to help it be more polite?
- 119. (37) What will robot designers need to do from now on?
- 120. 1 Pay robots for performing simple tasks.
- ^{121.} 2 Prevent robots from replacing human beings.
- Build robots that can concentrate on highly skilled jobs.

- 123. 4 Create robots that people feel comfortable working with.
- 124. (38) Why do people who run hospitals like TUG?
- 125. 1 It can guess what task it should do next.
- 126. 2 It can move easily from one hospital to another.
- 127. 3 It can stop workers from wasting time on simple jobs.
- 128. 4 It can help new nurse finds their way around the hospital.
- 129. (39) Bilge Mutlu discovered that people in one hospital
- 130. 1 felt that the way TUG acted as impolite.
- 131. 2 disliked it when TUG came too close to them.
- ^{132.} 3 refused to listen to TUG's messages.
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- 134. (40) What are some scientists trying to do?
- 135. 1 Use robots to teach people how to be more polite to each other.
 - 6. 2 Program robots to behave more like human beings.
- 3 Analyze the reasons why robots sometimes stop working.
- Design robots that do more work at night than they do in the day.

Review Questions

- 139. 1) What are some advantages of using robot workers over human workers?
- 140. **2**) What is TUG?
- 141. 3) What kind of things does TUG do?
- 142. 4) How does a person use TUG?
- 143. 5) Why do workers feel that TUG is impolite?
- 144. 6) What is the goal of the team of scientists at the University of Washington mentioned in this article?
- 145. 7) What would you do with a robot if you had one?
- 146. 8) What is a rule you could teach to a robot to help it be more polite?

解答:(37)4(38)3(39)1(40)2

