P1 Lesson 14. 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

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- 1. As robot technology improves, robots are becoming an increasingly important part of
- our daily lives.
- Robots, of course, have many advantages over human beings.
- They work hard, never need to rest, do not complain, and do not need to be paid.
- Moreover, by performing simple tasks, they make it possible for human workers to
- focus on jobs that require more skill.
- Yet as more robots enter the work place, their creators face a new problem—how to
- design them so that human beings can get along with them.

Further Questions& Sample Answers

- 1) What're some advantages of using robot workers over human workers?
- 10. Robots will work harder, don't need to rest and don't need to be paid.
- 11. A typical robot today is TUG, which is now used in more than 50 hospitals in the
- United States.
- 13. TUG is a box-like robot on wheels that is able to carry things, push carts, and deliver
- 14. messages.
- 15. TUG is programmed to remember all the places in a hospital.
- 16. When a nurse wishes to send something to another nurse, for example, instead of
- 17. having to waste time carrying it, he or she puts it on TUG, selects the destination, and
- 18. the robot goes there on its own.
- 19. Hospital managers like TUG because it allows hospital workers to concentrate on the
- 20. jobs they were originally trained to do.

Further Questions& Sample Answers

- 21. **2)** What's TUG?
- 22. TUG's a robot designed for bringing items from one place to another in a building so
- 23. that people can concentrate on their own jobs.
- 24. 3) What kind of things does TUG do?
- 25. TUG can carry items, push carts and deliver messages and remember how to find its
- 26. way through the building.
- 27. 4) How does a person use TUG?
- 28. They put the item on the robot and select where they want it to go. DELAPRINTING

- 29. Unfortunately, not all hospital workers like TUG.
- 30. Bilge Mutlu, a specialist in human-robot interactions at the University of
- Wisconsin—Madison, studied the reaction of workers to TUG in one hospital.
- 32. He found that many people disliked the robot's lack of manners.
- For example, when a human being delivers a message to someone who is talking on
- 34. the telephone, he or she will usually wait until the person on the phone is free.
- 35. TUG simply interrupts the call and loudly announces, "TUG has arrived."

Further Questions& Sample Answers

- 36. 5) Why do workers feel that TUG is impolite?
- 37. TUG will interrupt them when they're on the phone and used to continue to be just as
- 38. loud at night as during the day.

- 40. Aethon, the company that makes TUG, is taking Mutlu's research seriously.
- 41. Aethon already programmed TUG to speak more quietly at night. However, it is very
- 42. difficult to program a robot to be polite.
- 43. One possible answer, being developed by scientists at the University of Washington, in
- 44. Seattle, is a program that allows robots to analyze and imitate human behavior.
- 45. This will only work, however, if the human beings that the robots copy are themselves
- 46. behaving politely.

Further Questions& Sample Answers

- 47. 6) What's the goal of the team of scientists at the University of Washington mentioned in this article?
- 48. They want robots to be able to learn human behavior and copy it.
- 49. 7) What would you do with a robot if you had one?
- 50. I would want a robot that would do the grocery shopping for me and do cooking for me.
- 51. 8) What's a rule you could teach to a robot to help it be more polite?
- 52. Call people by their own names and recognize people's moods and respond to them
- 53. differently accordingly.

54. (37) What will robot designers need to do from now on?

- 55. 1 Pay robots for performing simple tasks.
- 56. 2 Prevent robots from replacing human beings.
- 7. 3 Build robots that can concentrate on highly skilled jobs.
- 58. 4 Create robots that people feel comfortable working with.

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59. (38) Why do people who run hospitals like TUG?

- 50. 1 It can guess what task it should do next.
- 61. 2 It can move easily from one hospital to another.
- 62. 3 It can stop workers from wasting time on simple jobs.
- 63. 4 It can help new nurse finds their way around the hospital.

64. (39) Bilge Mutlu discovered that people in one hospital

- 65. 1 felt that the way TUG acted as impolite.
- 66. 2 disliked it when TUG came too close to them.
- 67. 3 refused to listen to TUG's messages.
- 68. 4 thought that TUG worked too hard.

69. (40) What are some scientists trying to do?

- 70. 1 Use robots to teach people how to be more polite to each other.
- 71. 2 Program robots to behave more like human beings.
- 72. 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

- 74. 1) What're some advantages of using robot workers over human workers?
- 75. Robots will work harder, don't need to rest and don't need to be paid.

- P3 | Lesson 14. 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
- 76. 2) What's TUG?
- 77. TUG's a robot designed for bringing items from one place to another in a building so
- 78. that people can concentrate on their own jobs.
- 79. 3) What kind of things does TUG do?
- 80. TUG can carry items, push carts and deliver messages and remember how to find its
- 81. way through the building.
- 82. 4) How does a person use TUG?
- 83. They put the item on the robot and select where they want it to go.
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- 86. loud at night as during the day.
- 87. 6) What's the goal of the team of scientists at the University of Washington mentioned in this article?
- 88. They want robots to be able to learn human behavior and copy it.
- 89. 7) What would you do with a robot if you had one?
- 90. I would want a robot that would do the grocery shopping for me and do cooking for me.
- 91. 8) What's a rule you could teach to a robot to help it be more polite?
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- 93. differently accordingly.

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日本語訳付

94.

4[B] – Robot Manners



Lesson14 G2 Chobun dokkai 11.1(4B)A2E

解答:(37)4(38)3(39)1(40)2

96. part of our daily lives .

利点(りてん) 人類(じんるい)

97. Robots, of course, have many advantages over human beings. They work hard, -度 (いちど) も~ない 体 (やす) み 不満 (ふまん) を言う 払 (はら) う

8. never need to rest, do not complain, and do not need to be paid.

99. Moreover, by performing simple tasks , they make it possible for human workers **
\$\psi \text{(Log_2)} \text{y} \text{simple tasks} \text{velye} (\text{(Log_2)}) \text{y} \text{simple tasks} \text{velye} (\text{Log_2}) \text{y} \text{simple tasks} \text{y} \text{or human workers}

jobs that require more skill. Yet as more robots enter the 製作者 (せいさくしゃ) ~に直面(ちょくめん)する への仕方(しかた)

101. work place, their creators face a new problem— how to design them つまるために

so that human beings can get along with them.

Further Questions& Sample Answers

利点(りてん)

- 103. 1) What are some advantages of using robot workers over human workers?
- 104. 人間の労働者を超えてロボットを使う利点は何ですか。
- 105. Robots will work harder, do not need to rest and do not need to be paid.

P4 Lesson 14. 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 典型的 (てんけいてき) な ~以上 (いじょう) 病院 (びょういん)

106. A typical robot today is TUG, which is now used in more than 50 hospitals in 107. the United States.

車輪(しゃりん) ~することができる 運(はこ)ぶ おす

TUG is a box-like robot on wheels that is able to carry things, push carts, and (とど) ける 場所 (ばしょ) 場所 (ばしょ)

deliver messages. TUG is programmed to remember all the places in a hospital.

(はお) う 他 (ほか) の 例 (たと) えば ~の代 (か) わりに

having to waste time carrying it, he or she puts it on TUG, selects the destination,

112. and the robot goes there on its own.

113. 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)

concentrate on the jobs they were originally trained to do.

Further Questions& Sample Answers

USE A PRINTING CONSIDER OF STREET, PROMINETES.

115. 2) What is TUG? TUGは何ですか。

116. TUG is a robot designed for bringing items from one place to another in a building so 117. that people can concentrate on their own jobs.

118. 3) What kind of things does TUG do? TUG はどのような事をしますか。

119. TUG can carry items, push carts and deliver messages and remember how to find its 120. way through the building.

121. 4) How does a person use TUG? どのように TUG を使いますか。

122. They put the item on the robot and select where they want it to go.

残念 (ざんねん) なことに 専門家 (せんもんか

123. Unfortunately, not all hospital workers like TUG. Bilge Mutlu, a specialist in

124. human-robot interactions at the University of Wisconsin—Madison, studied the 反応 (はんのう) 現 (はんのう) 操 (きら) き

reaction of workers to TUG in one hospital. He found that many people disliked

126. the robot's lack of manners.

人類 (じんるい) 伝 (つた) える 誰 (だれ) か

127. For example, when a human being delivers a message to someone who is talking on

128. the telephone, he or she will usually wait until the person on the phone is free.

| 新華 (かんたん) に 中断 (ちゅうだん) する | 大声 (おおごえ) で 知 (し) らせる

129. TUG simply interrupts the call and loudly announces, "TUG has arrived."

Further Questions& Sample Answers

無礼 (ぶれい) な

130. 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。 続 (つづ) ける

131. TUG will interrupt them when they are on the phone and used to continue to be 132. just as loud at night as during the day.

134. Aethon, the company that makes TUG, is taking Mutlu's research seriously.

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136. However, it is very difficult to program a robot to be polite

138. Washington, in Seattle, is a program that allows robots to analyze and imitate

139. human behavior.

140. This will only work, however, if the human beings that the robots copy are themselves 私機 (れいぎ) 正 (ただ) しく

141. behaving politely

Further Questions& Sample Answers



- 142. 6) What is the goal of the team of scientists at the University of Washington mentioned in this article? この記事を言及したワシントン大学の科学者のチームの首標は何ですか。

 143. They want robots to be able to learn human behavior and copy it.
- 144. 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)
- 145. I would want a robot that would do the grocery shopping for me and do cooking for me.
- 146. 8) What is a rule you could teach to a robot to help it be more polite?
- 147. 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。
- 148. Call people by their own names and recognize people's moods and respond to them differently accordingly.
- 149. (37) What will robot designers need to do from now on?
- 150. 1 Pay robots for performing simple tasks.
 - Prevent robots from replacing human beings.
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- 154. (38) Why do people who run hospitals like TUG?
- 155. 1 It can guess what task it should do next.
- 156. 2 It can move easily from one hospital to another.
- 時間 (じかん) を無駄 (むだ) にする
- 157. 3 It can stop workers from wasting time on simple jobs.
- 158. 4 It can help new nurse finds their way around the hospital.
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- 187. Call people by their own names and recognize people's moods and respond to them 188. differently accordingly.

解答:(37)4(38)3(39)1(40)2





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