Type B 日本語訳なしスマホの方は横にしてご覧下さい。日本語付はスクロールダウンするとございます

3[A] – Leprosy and Armadillos Lesson3 Pre1 Chobun TypeB

AP1E 11-2

- 1. Leprosy has been feared since ancient times.
- 2. This <u>infectious disease</u> attacks the nerves and can cause blindness and the loss of 3. feeling in the hands and feet.
- 4. Leprosy was widely considered to be an inherited disease until 1873, when
- 5. Norwegian researcher G.A. Hansen identified the bacterium responsible for it:
- 6. Mycobacterium leprae.
- 7. His discovery laid the foundation for scientific research into the disease and the
- 8. development of a treatment for humans.
- 9.Initial attempts to cultivate M. leprae in the laboratory, however, only yielded
- 10. small amounts, which prevented any useful research from being carried out.

#### 11. Further Questions & Sample Answers

- 12.1) What symptoms are caused by Leprosy?
- 13. It can cause blindness and the loss of feeling in the hands and feet.
- 14.2) What did G.A. Hansen identify in 1873?
- 15. He identified the bacteria responsible for leprosy.
- 16.In the late 1960s, an American biochemist named Eleanor Storrs tried
- 17.cultivating M. leprae in the nine banded armadillo, a mammal common in the
- 18. southern United States.
- 19. She knew that in humans, *M. leprae* thrives in cooler extremities such as toes
- 20.and fingers.
- 21. Because the body temperature of the nine-banded armadillo is lower than that of
- 22.humans, she thought they would be a good breeding ground for the bacterium.
- 23. Furthermore, nine-banded armadillos give birth to four genetically identical
- 24.young, a fact Storrs knew would be useful when conducting experiments to
- 25.compare the condition of diseased and healthy animals.

#### Further Questions& Sample Answers



- 26.3) Why were the bodies of armadillos a good breeding ground for bacterium?
- 27. It was a good breeding ground because their body temperatures are lower than 28. that of humans.
- 29.4) What's unusual about the young of nine-banded armadillo?
- 30. They give birth to four genetically identical young.

- 31. Storrs found that nine-banded armadillos injected with M. leprae developed
- 32 infection resulting in large numbers of the bacterium.
- 33. Over the next 25 years, researchers studied bacteria taken from infected
- 34.nine-banded armadillos to learn more about leprosy.
- 35.A major breakthrough eventually came when a substance called lepromin was 36.produced.
- 37. When injected, lepromin causes a skin reaction in those infected with *M. leprae*.
- 38.If diagnosed in this way at an early stage, leprosy is now curable with long-term
- 39.treatment using a combination of antibiotics.

#### Further Questions& Sample Answers

- 40.5) What happened when the nine-banded armsdillo were injected with M.
- 41.leprae?
- 42. They developed an infection resulting in large numbers of the bacterium.
- 43.6) What was the result of 25 years of study of bacteria taken from the armadillo?
- 44. A substance called lepromin was produced.
- 45. Thanks to the development of easy diagnosis methods and effective treatment,
- 46.cases of leprosy worldwide have dropped dramatically.
- 47. Unfortunately, many of the 200,000 or so people who still become infected each
- 48. year fail to be diagnosed and receive medication before the disease causes
- 49.permanent damage because they live in poor and difficult-to-reach areas of the
- 50.world.

### Further Questions& Sample Answers

- 51.7) What has happened thanks to the development of easy diagnosis methods?
- 52. The cases of leprosy worldwide have dropped dramatically.
- 53.8) Why can't many of the people infected each year be diagnosed and receive
- 54.medication?
- 55. They live in poor and difficult-to-reach areas of the world.

# \*Choose the correct answer from these choices.

- 57.(32) What was G.A. Hansen's contribution to the fight against leprosy?
- 58.1.He made it possible to test treatments for leprosy by growing large amounts of M.leprae in the lab.
- 60.2. He developed a way to reduce the severity of nerve damage in leprosy sufferers.
- 61.3. He discovered that leprosy was actually an acquired diseased caused by one
- 62. specific bacterium.
- 63.4. He reduced the public's fear of leprosy by showing the disease was, in fact, not usually infectious.

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- 65.(33) One reason nine-banded armadillos proved useful in leprosy research was that
- 66.1.the high rate at which they contracted leprosy in the wild provided researchers with a large study sample.
- 67.2.the young of the armadillos infected with *M. leprae* demonstrated a natural immunity to the disease.
- 68.3.their symptoms develop more slowly than in humans, which allowed the researchers to perform long-term experiments.
- 69.4.they could be used as a means to grow *M. leprae* because of their relatively cool body temperature.
- 70.(34) What is one thing the author of the passage says about the current state of 71.leprosy?
- 72.1.Leprosy sufferers in certain places are unable to receive treatment due to 73.limited access to medical care.
- 74.2. Leprosy is particularly difficult to control in areas with large populations of 75. nine-banded armadillos.
- 76.3. The treatment that has proven most effective is difficult to manufacture in 77. large quantities.
- 78.4. Lepromin injections are no longer considered a practical way to treat leprosy in 79. developing countries.

#### 80. Review Questions

- 81.1 What symptoms are caused by Leprosy?
- 82. It can cause blindness and the loss of feeling in the hands and feet.
- 83.2 What did G.A. Hansen identify in 1873?
- 84. He identified the bacteria responsible for leprosy.
- 85.3 Why were the bodies of armadillos a good breeding ground for bacterium?
- 86. It was a good breeding ground because their body temperatures are lower than
- 87. that of humans.
- 88.4 What's unusual about the young of nine-banded armadillo?
- 89. They give birth to four genetically identical young.
- 90.5 What happened when the nine-banded armadillo were injected with M. leprae?
- 91. They developed an infection resulting in large numbers of the bacterium.
- 92.6 What was the result of 25 years of study of bacteria taken from the armadillo?
- 93. A substance called lepromin was produced.
- 94.7 What has happened thanks to the development of easy diagnosis methods?
- 95. The cases of leprosy worldwide have dropped dramatically.
- 96.8 Why can't many of the people infected each year be diagnosed and receive medication?
- 97. They live in poor and difficult-to-reach areas of the world.



98.解答: (32) 3 (33)4 (34) 1

#### 日本語訳付

- Leprosy and Armadillos Lesson3 Pre1 Chobun dokkai



ハンセン病(びょう) 古代(こだい)の

has been feared since ancient times. This infectious disease 99. Leprosy 引(ひ)き起(お)こす 盲目(もうもく)の 冒 (おか) す

100.attacks the nerves blindness and the and can cause

101. feeling in the hands and feet.

遺伝性疾患 (いでんせいしっかん)

102. Leprosy was widely considered to be an inherited disease until 1873, when ノルウェー人(じん) 研究者(けんきゅうしゃ) 細菌(さいきん) ~の原因 (げんいん) である

103.Norwegian researcher G.A. Hansen identified the bacterium responsible for

マイコバクテリウム・レプレ、らい菌

104.it: Mycobacterium leprae.

据(す)える

105. His discovery laid the foundation for scientific research into the disease 治療法 (ちりょうほう) 開発(かいはつ)

for humans. 106.and the development of a treatment

最初(さいしょ)の 試(こころ)み 改良(かいりょう) する 実験室(じっけんしつ)

*M. lepra*e in the laboratory, however, Initial attempts to cultivate 生(しょう)じた 妨(さまた)げた

108.0nly yielded small amounts, which prevented any useful research from 遂行(すいこう)させること

109.being carried out.

#### Further Questions& Sample answers

1) What symptoms are caused by Leprosy? ハンセン病によってどんな症状が引き起こされますか。 110. It can cause blindness and the loss of feeling in the hands and feet.

111.2) What did G.A. Hansen identify in 1873? 1873年に G.A. Hansen は何を突きとめましたか。

112. He identified the bacteria responsible for leprosy.

生化学者(せいかがくしゃ)

named Eleanor Storrs tried 113.In the late 1960s, an American biochemist 培養 (ばいよう) すること

114. cultivating *M. leprae* in the nine banded armadillo, a

115.common in the southern United States.

勢(いきお)いよく成長(せいちょう)する

116. She knew that in humans, M. leprae in cooler thrives

117.extremities such as toes and fingers.

体温 (たいおん)

118. Because the body temperature of the nine-banded armadillo is lower than that

119.0f humans, she thought they would be a good breeding ground for the

120.bacterium. Furthermore, nine-banded armadillos give birth to four 遺伝子的(いでんしてき)に 同一(どういつ)の

identical young, a fact Storrs knew would be useful when 121. genetically 実験(じっけん)

122. conducting experiments to compare the condition of diseased and healthy 123.animals.

# Further Questions & Sample answers

124.3) Why were the bodies of armadillos a good breeding ground for bacterium?

125.アルマジロの体はなぜ細菌の温床となりましたか。

126. It was a good breeding ground because their body temperatures are lower than

127. that of humans.

#### 128.4) What's unusual about the young of nine-banded armadillo?

129.若いココノオビアルマジロはどんな点が。珍しいですか。

130. They give birth to four genetically identical young.

131. Storrs found that nine-banded armadillos injected with *M. leprae* 伝染(でんせん) ~の結果(けっか)となる

132 developed infection resulting in large numbers of the bacterium. Over the 伝染(でんせん)させた

133.next 25 years, researchers studied bacteria taken from infected

134.nine-banded armadillos to learn more about leprosy. A major breakthrough

135.eventually came when a substance called lepromin was produced.

136. When injected, lepromin causes a skin reaction in those infected with *M. leprae*.

diagnosed in this way at an early stage, leprosy is now with curable

138.long-term treatment using a combination of antibiotics

#### Further Questions& Sample answers

139.5) What happened when the nine-banded armadillo were injected with M.

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140. leprae? ココノオビアルマジロがらい菌を注射された時、何が起りましたか。

141. They developed an infection resulting in large numbers of the bacterium.

142.6) What was the result of 25 years of study of bacteria taken from the 143.armadillo?

144.25年にわたるアルマジロから採取された細菌の研究結果は何でしたか。

145. A substance called lepromin was produced.

診断法(しんだんほう)

146. Thanks to the development of easy diagnosis methods and effective treatment,

147.cases of leprosy worldwide have dropped dramatically. Unfortunately, many of 感染(かんせん)している

148.the 200,000 or so people who still become infected each year 薬物治療(やくぶつちりょう)

149.diagnosed and receive medication before the disease causes permanent 到達困難 (とうたつこんなん) な地域 (ちいき)

150.damage because they live in poor and difficult-to-reach areas of the world.

# Further Questions & Sample answers

151.7) What has happened thanks to the development of easy diagnosis methods?

**152.**簡易な診断法の開発により、どうなっていますか。

世界中(せかいじゅう)に広(ひろ)がった

have dropped dramatically. 153. The cases of leprosy

154.8) Why can't many of the people infected each year be diagnosed and receive 155 medication?

156.なぜ各年の感染者の多数は診断されず、薬物治療も受けられないのですか。

157. They live in poor and difficult-to-reach areas of the world.

#### 158. \*Choose the correct answer from these choices.

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159 (32) What was G.A. Hansen's contribution to the fight against leprosy?

160.ハンセン病と戦うG.A.ハンセンはどんな貢献をしまいしたか。

He made it possible to test treatments for leprosy by growing large amounts

162. of M. leprae in the

減少 (げんしょう) させる 開発(かいはつ)した 神経(しんけい)

He developed a way to reduce the severity of nerve damage in 苦(くる)しむ人(ひと)たち

164. leprosy sufferers

後天的 (こうてんてき) な

He discovered that leprosy was actually an diseased caused acquired

specific bacterium. 166.by one

He reduced the public's fear of leprosy by showing the disease was, in 伝染性 (でんせんせい) の 168.fact, not usually infectious

### 169.(33)One reason nine-banded armadillos proved useful in leprosy research was that

170.ココノオビアルマジロがハンセン病研究において有益であることを証明した一つの理由は… 割合(わりあい)

at which they contracted leprosy the high

野生(やせい)の状態(じょうたい)では in the wild provided researchers with a large study sample.

~に伝染(でんせん)した 173.2. the young of the armadillos infected with M. leprae demonstrated a 自然免疫 (しぜんめんえき)

174.natural immunity to the disease.

their symptoms develop more slowly than in humans, which allowed the 176.researchers to perform long-term experiments.

they could be used as a means to grow *M. leprae* because of their relatively 体温 (たいおん)

178.cool body temperature.

## 179.(34) What is one thing the author of the passage says about the current state of

180.leprosy? この文章の著者はハンセン病の現在の状態についてどんな一つのことを述べていますか。

places are unable to receive treatment 181.1. Leprosy sufferers in certain ~のために 制限(せいげん)された 立(た)ち入(い)り

to medical care. 182.due to limited access

Leprosy is particularly difficult to control in areas with large populations of 184.nine-banded armadillos.

有効(ゆうこう)な

The treatment that has proven most effective is difficult to manufacture 185.3. 186 in large quantities.

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Lepromin injections are no longer considered a

practical way to

188.

発展途上国 (はってんとじょうこく)

leprosy in developing countries. treat







190.1) What symptoms are caused by Leprosy?

191. It can cause blindness and the loss of feeling in the hands and feet.

192.2) What did G.A. Hansen identify in 1873?

193. He identified the bacteria responsible for leprosy.

194.3) Why were the bodies of armadillos a good breeding ground for bacterium?

195. It was a good breeding ground because their body temperatures are lower than 196. that of humans.

197.4) What's unusual about the young of nine-banded armadillo?

198. They give birth to four genetically identical young.

199. 200.

201.5) What happened when the nine-banded armadillo were injected with M.

202.leprae?

感染(かんせん) ~の結果(けっか)になる

203. They developed an infection resulting in large numbers of the bacterium.

204.6) What was the result of 25 years of study of bacteria taken from the armadillo?

205. A substance called lepromin was produced.

206.7) What has happened thanks to the development of easy diagnosis methods? 世界中(せかいじゅう)に広(ひろ)がった

207. The cases of leprosy

worldwide

have dropped dramatically.

208.8) Why can't many of the people infected each year be diagnosed and receive

209 medication?

210. They live in poor and difficult-to-reach areas of the world.

解答: (32) 3 (33) 4 (34) 1



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