

Lesson 5 Smart agriculture 確認テスト	Class	No.	Name	/100
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【教科書pp.36-39】

1. Fill each blank with a suitable word. (3点×6)

- (1) ケンはスマート農業に関する興味深い記事を見つけました。
Ken found an interesting article about () ().
- (2) 革新的な技術はより多くの収穫をもたらすでしょう。
Innovative technology will () () more crop production.
- (3) 気象変動に対応するために何かする必要があります。
We need to do something to () () climate change.
- (4) 天気予報によると、明日は恵みの雨となるでしょう。
() () the weather forecast, we'll have some welcome rain tomorrow.
- (5) この技術は農業を一気に変えるものになるでしょう。
This technology will be a () () for agriculture.
- (6) この新しいシステムを使えば、農家では人間の労力がより必要でなくなるかもしれません。
With this new system, it is possible that farmers will need () () ().

2. Put the words in brackets in the most suitable order. (4点×6)

- (1) More and more farmers are using AI [make / more / to / efficient / farming].
More and more farmers are using AI _____.
- (2) [of / the / adjusting / water / amount] is very important when you grow crops.
_____ is very important when you grow crops.
- (3) Today, [like / modern / using / AI / technology] is essential for our lives.
Today, _____ is essential for our lives.
- (4) For more efficient farming, we should [use / make / new / of / full] technology.
For more efficient farming, we should _____ technology.
- (5) How can [collected / data / by / use / we] the sensors?
How can _____ the sensors?
- (6) If we introduce AI into offices, we will be able [work / private / balance / to / and] life better.
If we introduce AI into offices, we will be able _____ life better.

3. Complete the sentences to match the Japanese. (4点×5)

- (1) 伝統的な農法が消え去るのを見るのは寂しい気がします。
I feel sad to _____.
- (2) 農業の深刻な人手不足は無視できません。
We shouldn't ignore the _____ in agriculture.
- (3) 機械はどれほどの作業を代わりにしてくれるでしょうか。
How much of the work can machines _____?
- (4) 新しい農業は従来の農業よりも環境に優しいです。
The new agriculture is _____ traditional farming.
- (5) 農業の生産性を高めるために、私たちにはほかに何ができるでしょうか。
What else can we do to _____?

4. Fill each blank with a suitable word. (3 点×3)

- (1) AI stands for ()().
- (2) IoT stands for the ()()().
- (3) A () is someone who officially speaks for a group.

5. Read the following passage and answer the questions. (29 点)

I think smart agriculture ①_____ in Japan in the future for two reasons. First, the farming industry in this country faces a serious labor shortage. If machines can take over much of the work that farm workers currently do, ②_____. Second, smart agriculture is more eco-friendly than traditional farming. For example, AI can use big data to ③_____ pesticide needed to treat a particular area. Such measures will minimize the damage caused by farming, making farming much more sustainable.

(1) Choose the best option to fill in each blank. (4 点×3)

- ① a. may cost much more
b. should be banned
c. will become common
- ② a. the problem will be solved
b. more and more young people will start farming
c. crop production will be decreased
- ③ a. mix several kinds of
b. sell a larger amount of
c. calculate the minimum amount of

(2) If the statement is true, put T in the bracket. If it's not true, put F in the bracket. (3 点×3)

- ① The writer gives two reasons for supporting smart agriculture. []
- ② The writer says labor shortages will be more serious in the future. []
- ③ The writer believes smart agriculture is more environmentally friendly than traditional farming. []

(3) Answer the questions in English. (4 点×2)

① What does the writer expect machines to do?

② What does AI use to make a judgment?

Lesson 5 Smart agriculture 確認テスト模範解答	Class	No.	Name	/100
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【教科書pp.36-39】

1. Fill each blank with a suitable word. (3点×6)

- (1) ケンはスマート農業に関する興味深い記事を見つけました。
Ken found an interesting article about (smart) (agriculture [farming]).
- (2) 革新的な技術はより多くの収穫をもたらすでしょう。
Innovative technology will (bring) (about) more crop production.
- (3) 気象変動に対応するために何かする必要があります。
We need to do something to (respond [deal]) (to [with]) climate change.
- (4) 天気予報によると、明日は恵みの雨となるでしょう。
(According) (to) the weather forecast, we'll have some welcome rain tomorrow.
- (5) この技術は農業を一気に変えるものになるでしょう。
This technology will be a (game) (changer) for agriculture.
- (6) この新しいシステムを使えば、農家では人間の労力がより必要でなくなるかもしれません。
With this new system, it is possible that farmers will need (less) (human) (labor).

2. Put the words in brackets in the most suitable order. (4点×6)

- (1) More and more farmers are using AI [make / more / to / efficient / farming].
More and more farmers are using AI to make farming more efficient.
- (2) [of / the / adjusting / water / amount] is very important when you grow crops.
Adjusting the amount of water is very important when you grow crops.
- (3) Today, [like / modern / using / AI / technology] is essential for our lives.
Today, using modern technology like AI is essential for our lives.
- (4) For more efficient farming, we should [use / make / new / of / full] technology.
For more efficient farming, we should make full use of new technology.
- (5) How can [collected / data / by / use / we] the sensors?
How can we use data collected by the sensors?
- (6) If we introduce AI into offices, we will be able [work / private / balance / to / and] life better.
If we introduce AI into offices, we will be able to balance work and private life better.

3. Complete the sentences to match the Japanese. (4点×5)

- (1) 伝統的な農法が消え去るのを見るのは寂しい気がします。
I feel sad to see traditional farming practices disappear.
- (2) 農業の深刻な人手不足は無視できません。
We shouldn't ignore the severe [serious] labor shortage in agriculture.
- (3) 機械はどれほどの作業を代わってくれるでしょうか。
How much of the work can machines take over?
- (4) 新しい農業は従来の農業よりも環境に優しいです。
The new agriculture is more eco-friendly than traditional farming.
- (5) 農業の生産性を高めるために、私たちにはほかに何ができるでしょうか。
What else can we do to increase agricultural productivity?

4. Fill each blank with a suitable word. (3 点×3)

- (1) AI stands for (artificial) (intelligence).
- (2) IoT stands for the (Internet) (of) (Things).
- (3) A (spokesperson) is someone who officially speaks for a group.

5. Read the following passage and answer the questions. (29 点)

I think smart agriculture ①_____ in Japan in the future for two reasons. First, the farming industry in this country faces a serious labor shortage. If machines can take over much of the work that farm workers currently do, ②_____. Second, smart agriculture is more eco-friendly than traditional farming. For example, AI can use big data to ③_____ pesticide needed to treat a particular area. Such measures will minimize the damage caused by farming, making farming much more sustainable.

(1) Choose the best option to fill in each blank. (4 点×3)

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(2) If the statement is true, put T in the bracket. If it's not true, put F in the bracket. (3 点×3)

- ① The writer gives two reasons for supporting smart agriculture. [T]
- ② The writer says labor shortages will be more serious in the future. [F]
- ③ The writer believes smart agriculture is more environmentally friendly than traditional farming. [T]

(3) Answer the questions in English. (4 点×2)

- ① What does the writer expect machines to do?
The writer expects machines to take over much of the work that farm workers currently do.
- ② What does AI use to make a judgment?
It uses big data.