

Doctoral Program of Veterinary Science

獣医学専攻

帯広畜産大学大学院畜産学研究科

科目名：英 語

博士課程

English 1 / 5

令和7年度10月入学

令和8年度4月入学（第1回）

Question 1

Read the passage below and answer the questions

(著作権の関係上、公開できません)

[Source: Cell signaling and gene functioning during development, Veterinary Embryology, 2017]

Question 1-1. Choose the most appropriate word or phrase from the four choices for each blank. Write the corresponding letter (a–d) on your answer sheet.

- (1) a. from b. by c. on d. to
- (2) a. attached b. related c. reached d. bound
- (3) a. one b. two c. three d. four
- (4) a. adjacent b. separate c. distant d. apart
- (5) a. different b. similar c. unrelated d. various
- (6) a. to b. on c. from d. with
- (7) a. In common with b. Similar to c. In comparison with d. In the same way as
- (8) a. temporary b. unstable c. sustained d. discontinue

Question 1-2. Select the most appropriate system for the signaling shown in Figures 1 and 2 from the five signaling systems, respectively.

Figure 1

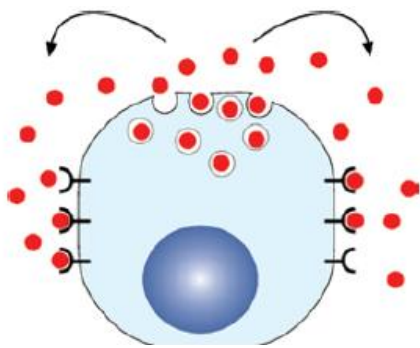
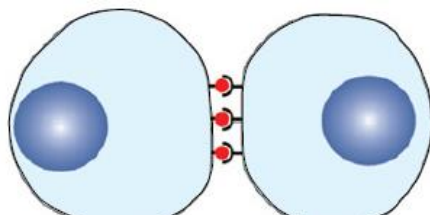


Figure 2



● messenger molecule
Y receptor

Question 1-3. Answer whether autocrine signaling is a short-range signaling mechanism or a long-range signaling mechanism.

Question 1-4. Briefly explain the differences between synaptic signaling and endocrine signaling.

Question 2

Read the passage below and answer the questions

(著作権の関係上、公開できません)

[Source: Codex Alimentarius Commission, Procedural Manual 28th edition, 2025 (Partial modification)]

Question 2-1

Choose the most appropriate word from the four choices.

- | | | | |
|-------------------|---------------|------------------|----------------|
| (1) a. two | b. three | c. four | d. five |
| (2) a. management | b. assessment | c. communication | d. analysis |
| (3) a. life | b. beings | c. health | d. society |
| (4) a. produce | b. reduce | c. clear | d. disappear |
| (5) a. distinct | b. simple | c. similar | d. interactive |
| (6) a. handlers | b. managers | c. communicators | d. consultants |
| (7) a. issue | b. problem | c. hazard | d. risk |
| (8) a. an | b. by | c. our | d. into |

Question 2-2

Which of the following organizations is responsible for conducting risk assessments in Japan?

- | | |
|---|--|
| a. Food Safety commission | b. Ministry of Agriculture, Forestry and Fisheries |
| c. Ministry of Health, Labour and Welfare | d. Consumer Affairs Agency |

Question 2-3

Give one example of risk management organizations in Japan.

Question 3

Read the passage below and answer the questions.

(著作権の関係上、公開できません)

[Source: Bluetongue (infection with bluetongue virus) WOAH Terrestrial Manual (2021) (Partial modification)]

Question 3-1

Choose the most appropriate word from the four choices for each blank (1) – (10).

(1)	a. is affected	b. affect	c. affects	d. affecting
(2)	a. feeding	b. feed	c. to feed	d. feeds
(3)	a. chronic	b. progressive	c. terminal	d. fatal
(4)	a. observe	b. observing	c. observed	d. observation
(5)	a. detects	b. detected	c. detecting	d. detection
(6)	a. holes	b. erosions	c. liquids	d. abrasions
(7)	a. close	b. cause	c. occur	d. open
(8)	a. urge	b. reluctance	c. desire	d. movement
(9)	a. fills	b. filling	c. full	d. filled
(10)	a. levels	b. ranges	c. grades	d. rates

Question 3-2

Write a word for the following definitions.

- (1) A term describing a disease condition that persists over a long period, often with slow progression of symptoms.
- (2) A description for the bluish appearance of tissue due to insufficient oxygenation.
- (3) A word describing infections that do not show any visible clinical signs.
- (4) A condition in which blood vessels are overfilled with blood, causing redness and swelling.
- (5) A pathological process in which cells, tissues, or organs lose their normal structure or function over time.

Question 4

Read the passage below and answer the question.

(著作権の関係上、公開できません)

[Source: Christopher R Lamb, The Veterinary Journal, 2016]

Question 4-1. Choose the most appropriate word or phrase from the four choices for each blank. Write the corresponding letter (a–d) on your answer sheet.

- | | | | |
|----------------------|----------------|-----------------|------------------|
| (1) a. pathologist | b. surgeon | c. physiologist | d. radiologist |
| (2) a. of | b. in | c. at | d. on |
| (3) a. without | b. throughout | c. out of | d. outside |
| (4) a. morphological | b. qualitative | c. functional | d. mechanical |
| (5) a. radiography | b. US | c. CT | d. MRI |
| (6) a. complex | b. completely | c. complaint | d. complementary |
| (7) a. recorded | b. recognized | c. recommended | d. received |
| (8) a. all | b. not any | c. not all | d. none of all |
| (9) a. of | b. at | c. on | d. from |
| (10) a. However | b. Therefore | c. Furthermore | d. In conclusion |

Question 4-2. Which is inappropriate as potential problems of imaging tests that cause a negative benefit to the animal?

1. Misdiagnosed as positive
2. Detection of incidental findings
3. Over-diagnosis
4. Decision of a treatment based on the accurate imaging diagnosis
5. Excessive use of imaging modalities