

# 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 / 4

令和元年度 10月入学

令和2年度 4月入学 (第1回)

Question 1-1.

Read each passage and choose the best word from the four choices for each blank. Then, on your answer sheet, write the number 1, 2, 3 or 4 for the best answer.

著作権の関係上，表示できません。

[Source: Molecular Cell Biology, 6th edition, W.H. Freeman and company, 2008]

- |                         |                      |                   |                             |
|-------------------------|----------------------|-------------------|-----------------------------|
| (1) 1. activation       | 2. inhibition        | 3. presence       | 4. absence                  |
| (2) 1. movement         | 2. force             | 3. presence       | 4. absence                  |
| (3) 1. myosin           | 2. actin             | 3. troponin       | 4. tropomyosin              |
| (4) 1. hydrolysis       | 2. dephosphorylation | 3. carboxylation  | 4. hydroxylation            |
| (5) 1. hydrolyzed       | 2. carboxylated      | 3. hydroxylated   | 4. phosphorylated           |
| (6) 1. Ca <sup>2+</sup> | 2. Na <sup>+</sup>   | 3. K <sup>+</sup> | 4. Mg <sup>2+</sup>         |
| (7) 1. calsequestrin    | 2. calexcitin        | 3. calmodulin     | 4. Ca <sup>2+</sup> channel |
| (8) 1. in               | 2. to                | 3. at             | 4. on                       |
| (9) 1. faster           | 2. stronger          | 3. weaker         | 4. slower                   |

Question 1-2.

Question about underline [A]. In case of skeletal muscle, what regulates the muscle contraction as an external signal molecule?

Question 1-3.

Question about underline [B]. What is "it"? Please choose the appropriate name from the four choices. Then, write the number 1, 2, 3 or 4 on the answer sheet.

1. myosin LC phosphatase
2. myosin LC kinase
3. myosin ATPase
4. protein kinase C (PKC)

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Question 2.

Read the passage below and describe what the underlined text means in English.

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[CNN News Digest in CNN ENGLISH EXPRESS (Vol. 5, 2019) (Partial modification)]

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English 3 / 4

令和元年度 10月入学

令和2年度 4月入学 (第1回)

### Question 3.

Read the passage below and choose the most appropriate word from the four choices for each blank. Write the corresponding letter (a–d) on your answer sheet.

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[Source: Influences on Equine Fracture Healing, the HORSE, NOV 19,2012 (Partial modification)]

- |      |              |               |               |                |
|------|--------------|---------------|---------------|----------------|
| (1)  | a. whether   | b. when       | c. while      | d. where       |
| (2)  | a. of        | b. at         | c. for        | d. from        |
| (3)  | a. import    | b. impress    | c. improper   | d. improve     |
| (4)  | a. one       | b. two        | c. three      | d. four        |
| (5)  | a. incorrect | b. include    | c. increase   | d. incline     |
| (6)  | a. of        | b. at         | c. for        | d. from        |
| (7)  | a. whether   | b. when       | c. while      | d. where       |
| (8)  | a. when      | b. who        | c. why        | d. which       |
| (9)  | a. or        | b. nor        | c. and        | d. but         |
| (10) | a. harmful   | b. beneficial | c. irrelevant | d. detrimental |

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### Question 4.

Read the passage below and answer the questions.

著作権の関係上，表示できません。

[Source: <https://ecdc.europa.eu/en/west-nile-fever/facts/factsheet-about-west-nile-fever> (Partial modification)]

### Question 4-1.

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

- |     |            |               |               |             |
|-----|------------|---------------|---------------|-------------|
| (1) | a. infect  | b. infectious | c. infections | d. infected |
| (2) | a. in      | b. on         | c. at         | d. under    |
| (3) | a. present | b. exists     | c. available  | d. useful   |
| (4) | a. through | b. throughout | c. from       | d. over     |

- (5) a. infect      b. infectious      c. infections      d. infected  
 (6) a. until      b. thorough      c. up      d. on  
 (7) a. infect      b. infectious      c. infections      d. infected  
 (8) a. direct      b. indirect      c. vertical      d. horizontal

Question 4-2.

Answer Yes if the statement is true according to the passage. Answer No if it is not.

- (1) About 20% of people infected with WNV develop a neuroinvasive disease.  
 (2) The incubation period can be 2 to 21 days in human cases of WNV infection.  
 (3) Medicine is available for West Nile fever patients.  
 (4) Human-to-human transmission via mother's milk has been reported.

Question 4-3.

Figure 1 shows the West Nile virus transmission cycle described in the passage. Choose the most appropriate word from the four choices below (I–IV) for each blank (A–D) in Figure 1. Write on answer sheet.

- I. Mosquitos  
 II. Birds  
 III. Migratory birds  
 IV. Equids

