

February 14, 2015

英語 A
English A

(60分間)

Time limit: 60 minutes

注意

1. 問題紙は指示があるまで開いてはいけません。
2. 問題紙は3枚です。
3. 問題紙は持ち帰ってください。

Notice:

1. Do not open this cover until you have been instructed to by a proctor.
2. The question sheet consists of 3 pages not including this cover.
3. You must bring the question sheet back when you are finished.

Read the following article and answer the questions below.

(この部分につきましては、著作権の関係により、公開しません。)

ANSWER SHEET FOR ENGLISH A

Examinee's number

Q1: Select the most appropriate words from a to e and fill the blank.

- a. an atomic force microscope
- b. a light microscope
- c. an electron microscope
- d. a differential interference contrast microscope
- e. a fluorescence microscope

Q2: Select the most appropriate words from a to e and fill the blank.

- a. cell wall
- b. mitochondria
- c. ribosome
- d. nucleus
- e. flagellum

Q3: Explain why discovery of giant viruses has challenged our concept of viruses, from the former concept(s) (I) to the changed concept(s) (II). Please write down I and II, respectively.

I. _____

II. _____

Q4: Select the most appropriate title for this article from a to e and fill the blank.

- a. Wild flower blooms again after 30,000 years on ice
- b. Pandora's box has been tightly closed during 30,000 years on ice
- c. Global warming uncovered third type of giant virus
- d. Third type of giant virus destroy the amoeba host
- e. Third type of giant virus reinforces need to explore biodiversity

Q5: Explain the significance of discovery of giant viruses appeared in this article.

Q6. Select the most appropriate word to fill each space from A to E in the below sentences. The words are given in the below parenthesis and should be selected only once.

The ancient (Q6:A) was discovered buried 30m down in the frozen ground. Called *Pithovirus sibericum*, it belongs to a class of giant viruses. These are all so large that, unlike other viruses, they can be seen under a (Q6:B). And this one, measuring 1.5 (Q6:C) in length, is the biggest that has ever been found. The last time it infected anything was more than 30,000 years ago, but in the laboratory it has sprung to life once again. Tests show that it attacks (Q6:D), which are single-celled organisms, but does not infect humans or other (Q6:E).

(micrometers, animals, amoebas, microscope, pathogen)

A. _____ B. _____ C. _____ D. _____ E. _____