

February 13, 2016

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4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 4 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。)

(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。)

(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。)

(Adapted from Nature 516: 49-50, 2014)

Q1: Select the most adequate words for the spaces (A)-(E) from the ones given below.  
Each word should be used only once.

quickly, positive, closely, negative, higher

Q2: Explain what the following terms (A) and (B) indicate by other terms (substance names) that appear in this article.

Q3: Enumerate three functions of fatty-acid esters of hydroxyl fatty acids (FAHFAs) contributing to glucose homeostasis based on the contents of this article.

Q4: Which of the following titles would the authors most likely agree with? Only one title should be selected.

- (A) Omega-3 fatty acids against metabolic diseases
- (B) Glucose control in diabetes
- (C) The good in fat
- (D) Obesity and insulin resistance
- (E) Fatty acids in the GLUT-4-overexpressing mice

Q5: Summarize the content of this article with less than 60 English words.