

Read the following passage and answer the questions that follow.

Instructions

Reading Passage

It is true that science requires <sup>(1)</sup>analysis and that it has <sup>(2)</sup>fractured into microdisciplines. But because of this, more than ever it requires <sup>(3)</sup>synthesis. Science [ has / is / about / connections ]. Nature no more obeys the territorial divisions of scientific academic disciplines than do continents appear from space to be colored to reflect the national divisions of their human inhabitants.

Questions

Q1. Vocabulary(6 points)

Choose the word that is closest in meaning to the boldfaced word.

(1) analysis

- ① creation    ② examination    ③ imagination    ④ confusion

(2) fractured

- ① unified    ② divided    ③ simplified    ④ improved

(3) synthesis

- ① separation    ② criticism    ③ combination    ④ repetition

Q2. Grammar / Usage(6 points)

Choose the sentence in which that is used as a formal subject construction.

① It is true that science requires careful analysis of complex phenomena.

② The theory that he proposed after years of research challenged existing views.

③ This is the method that scientists often use when studying nature.

④ Many scientists argue that nature cannot be understood by analysis alone.

Q3. Word Order(6 points)

Rearrange the words to make a grammatically correct sentence.

One word is unnecessary.

[ has / is / about / connections ]

→ \_\_\_\_\_

Q4. Translation(20 points)

Translate the underlined sentence into natural Japanese.

Q5. Reading Comprehension(12 points)

Choose the most appropriate answer to each question.

- (1) According to the passage, why is synthesis more necessary than ever?
- ① Because science has become less analytical
  - ② Because microdisciplines have disappeared
  - ③ Because science has become increasingly fragmented
  - ④ Because experiments are no longer required
- (2) What does the author suggest about nature?
- ① It reflects national borders clearly
  - ② It follows academic disciplines
  - ③ It ignores human-made divisions
  - ④ It changes according to observation
- (3) Why does the author mention continents seen from space?
- ① To explain geography
  - ② To discuss space exploration
  - ③ To illustrate the artificial nature of human divisions
  - ④ To emphasize technological progress