英語Ⅰ４課予想問題

A 次の文章を読み各設問に答えよ。

When they met in 1954, Taniyama and Shimura were just beginning their mathematical careers. The tradition was for young researchers to be taken under the __4__of a professor who would guide the (①) brain, but Taniyama and Shimura rejected this form of__5__. During the war real research [6]ground to a halt, and even by the 1950s the mathematics faculty had still not recovered. According to Shimura, the professors were "tired, __7__and disillusioned." In comparison the post-war students were passionate and eager to learn, and they soon realized that the only way forward would be for them to teach them selves. The students organized regular seminars, taking in turn to inform each other of the latest techniques and breakthroughs. [8] Despite his otherwise lackadaisical attitude, when it came to the seminars Taniyama provided a (②) driving force. He would encourage the more senior students to explore (③) territory, and__9__ the younger students he acted as a father figure.

【1~3】空所（①）、（②）、（③）に入るべきもっとも適切な形容詞を下の a~i の中からそれぞれ一つ選べ。同じ形容詞を二度選んではならない。

a. young　b. ferocious　c. unknown　d. impetuous　e. fledgling　f. concerned

g. uncharted　h. new　i. powerful

【4】二重下線部__4__の位置に入るべきもっとも適切な語を a~e の中でひとつ選べ。

a. care　b. instruction　c. education　d. wing　e. limb

【5】二重下線部__5__の位置に入るべきもっとも適切な語句を a~e の中でひとつ選べ。

a. apprenticeship　b. acquaintanceship　c. lectureship　d. scholarship　e.transship

【6】下線部 6 の言い換えとして、もっとも適切なものを a~e の中からひとつ選べ。

a. had reached a point

b. were in trouble

c. had stopped

d. had been insulted

e. slacked in growth

【7】二重下線部__7__の位置に入るべきもっとも適切な語を a~e の中でひとつ選べ。

a. hopeless　b. jaded　c. exhausted　d. unwilled　e. lamented

【8】下線部 8 の意味としてもっとも適切なものを a~e の中でひとつ選べ。

a. he was thought to be inactive people by most of the people

b. he had apathetic attitude most of the time

c. he was nothing but aggressive person

d. he is anything but inactive

e. he overcame his sloppiness

【9】二重下線部__9__の位置に入るべきもっとも適切な語を a~e の中でひとつ選べ。
a. to　b. towards　c. from　d. by　e. for

B 次の【A】から【E】の文章には本来なければならない単語が一つずつ欠けている。その補うべき語を、前後の各一語とともにそれぞれ記述式解答欄（選択肢式の問題はすべてマーク）【A】～【E】に記入せよ。つまり解答欄一つにつき、三語が記入されることになる。

【A】Unfortunately, drawing, even imagining, a modular form is impossible because modular forms live in a four-dimensional space called hyperbolic space. 【B】The hyperbolic universe is tricky to comprehend for humans, who are constrained to living a conventional tree-dimensional world, but four-dimensional space is a mathematically valid concept, and it is this extra dimension that gives the modular forms such an immensely high level of symmetry. 【C】The M.C. Escher was fascinated by mathematical ideas and attempted to convey the concept of hyperbolic space in some of his etchings and paintings. 【D】Modular forms stand very much on their own mathematics. 【E】In particular, they would seem to be completely unrelated elliptic equations. 【F】<u>The modular form is an enormously complicated beast, studied largely because of its symmetry</u> and discovered only in the nineteenth century.

【F】下線部[F]を日本語に訳し、記述式解答欄【F】に記入せよ。

C 以下の a~d を意味の通る一続きの文章になるように並べ替え、該当する箇所に文の記号をマークせよ。ただし、最初と最後に来る文章はすでに決められている。

最初の文：The value of mathematical bridges is enormous.

a. For example, there is the island occupied by geometers who study shape and form, and then there is the island of probability where mathematicians discuss risk and chance.

b. They enable communities of mathematicians who have been living on separate islands to exchange ideas and explore each other's creations.

c. There are dozens of such islands, each one with its own unique language, incomprehensible to the inhabitants of other islands.

d. Mathematics consists of islands of knowledge in a sea of ignorance.

最後の文章：the great potential of the Taniyama-Shimura conjecture was that it would connect two islands and allow them to speak to each other for the first time.

【10】－【11】－【12】－【13】

ANSWERS

1e 2b 3g 4d 5a 6c 7b 8b 9e 10b 11d 12a 13c

A: drawing or even

B: living in a

C: the artist M.C. Escher

D: own within mathematics

E: unrelated to elliptic

F: モジュラー形式はとてつもなく複雑なもので、研究される大体の理由がその対称性であり