



大問1(B)

次の英文を読み、以下の問いに答えよ。

As the human mind evolved, at some point we began to consider the possibility of life beyond our planet. Perhaps it was a starry evening, thousands of years ago, when some primitive human being stepped outside of his or her cave, gazed at the sky, and was the first to ask that profound question: Are we alone? It has kept us wondering ever since. No one could have guessed, until just a few years ago, that an important clue as to where to search for life beyond our planet might be right here on Earth, beneath our feet.

In our recent search for the origin of life on Earth, we have made a series of fascinating discoveries of microbes that thrive thousands of meters beneath the surface, at extremely high temperatures and pressures. (ア) Within the rocks and clays, these microbes have access to water but often little else that we would consider necessities. (イ) For example, many have been cut off from sunlight for hundreds of millions of years. (ウ) They form the base of an underground food chain, just as plants do on the surface, and the proven existence of these underground communities has completely changed our thinking about life on our planet and elsewhere. (エ) It contradicts the lesson many of us learned in high school biology --- that all life is ultimately dependent on solar energy. (オ) Some scientists now believe that these underground microbes may directly descend from Earth's first life forms.

Astronomers and other scientists agree that many of the planets in the universe are likely to have subsurface environments very similar to Earth's. The temperature and pressure conditions within the interiors of some of these planets could even maintain water. (a)The deep interiors may also contain valuable natural resources that would be very useful to our society in both the near and distant future. (b)Since there are life forms that survive in the extreme conditions of deep Earth, why not the deep subsurface of Mars? (c)And if, as some suspect, life originated within Earth's underground, couldn't life also have arisen in one of the many similar environments elsewhere in the solar system, or in the wider universe? (d)In our narrow-minded view that only solar-powered life is possible, we have presumed that if any planet could support life it would be in a zone where the surface conditions are similar to ours. (e)It now appears, however, that this widely held assumption was wrong and that the zone where life can be sustained, within our own planet and throughout the universe, has been substantially underestimated.

For the investigators of Earth's underground, the area of most interest is in some ways just as remote as a distant planet. Unable to visit the area themselves, they have had to be satisfied working in the laboratory with the soil or pieces of rock brought up from the depths.

Recently, however, a small team of scientists found a way to live out their fantasy by going down into one of the deepest mines in the world --- South Africa's East Driefontein gold mine. Here a series of tunnels have been dug to reach more than three kilometers deep into the Earth's underground. The mine has taken decades to construct and is an engineering wonder by any standard. During a typical production shift, more than five thousand workers are underground, creating new tunnels, building support structures, and digging up rocks that contain gold.

In the fall of 1998, Tullis Onstott, a scientist from Princeton University, along with a carefully selected team of scholars, joined the workers in the underground gold mine for several weeks. On the first day, the researchers decided to head immediately to the deepest area that had been dug most recently, where the contamination from surface microbes would presumably be minimal. On their way down, the researchers could feel the pressure build and the temperature rise as they went deep into the Earth. By the time they reached the deepest area, they were sweating so much that they had to reach for their water bottles. At this three-kilometer depth, the rock surface temperature was 60°C.

注: microbes微生物

(1) 以下の文は、第二段落のア～オのどの位置に補うのが最も適切か。その記号を記せ。

In spite of all this, these microbes have an importance very much out of proportion to their size.

(2) 第三段落の文(a)～(e)のうち、段落の論旨と最も関係のうすいものはどれか。その記号を記せ。

(3)上の文章の末尾には、次のア～エの四つの段落が入る。それらを適切な順に並べ替えて、解答欄に記号を記せ。

ア It was not until months later that they were able to complete the laboratory analysis of their samples. They found that some samples contained much higher populations of microbes than expected-between 100,000 and 1 million per gram. Many of these microbes did indeed have unusual ways of sustaining their lives.

イ The discovery of the strange microbes in the South African gold mine convinced the scientists that further study of the underground world is absolutely necessary if we are to understand how life has evolved on Earth. They are now paying as much attention to the deep interior of the earth as to the outer universe in their investigation into the question of life beyond our planet.

ウ The whole area was busy with activity. The researchers had to shout to hear each other over the sounds of drills and other equipment used for digging. The lamps attached to the workers' helmets could be seen here and there through the dust-filled darkness, and the smell of explosive was in the air. Ignoring the noise, the physical discomfort, and the very real danger of accidents, the researchers got to work.

エ When all of their sample bags were full, they spent some time looking around. Although they were planning to return the next day, they were so excited that they felt reluctant to leave. Eventually, when their energy began to fade, they hiked back to the elevator for the ride to the surface.

(4) この文章の表題として、最も適切なものを次のうちから選び、その記号を記せ。

ア Looking for Life on Other Planets

イ How Microbes Survive Underground

ウ New Understandings of the Basis of Life

エ Scientists Investigate an Engineering Wonder

オ The Significance of the East Driefontein Gold Mine

大問2 (A)

次の英文は、授業でグループ発表をすることになった生徒同士の電子メールでのやり取りである。

空所(1),(2)をそれぞれ15～20語の英語で埋めて、全体として意味の通った文章にせよ。

From: Ken O'Hare  
 To: Yoshiko Abe, John Carter  
 Date: Thursday, January 31, 2008, 8:23 PM  
 Subject: Our group presentation

Dear Yoshiko and John,

I'm writing this e-mail in order to ask you two if you have any idea about how we should cooperate in our group presentation for Ms. Talbot's class next week. Can I suggest that one of us should do some basic research into a contemporary issue such as global warming, the aging society, environmental pollution, etc., another write a short paper on it, and the third give a presentation based on the paper, representing the team? What do you think about my plan?

All the best,  
Ken

From: Yoshiko Abe  
 To: Ken O'Hare  
 Cc: John Carter  
 Date: Thursday, January 31, 2008, 9:12 PM  
 Subject: Re: Our group presentation

Dear Ken,

Thank you for your message. Your suggestion sounds very interesting, but

(1) \_\_\_\_\_ .

So, I would rather suggest that

(2) \_\_\_\_\_ .

Best wishes,  
Yoshiko

From: John Carter  
 To: Ken O'Hare  
 Cc: Yoshiko Abe  
 Date: Thursday, January 31, 2008, 10:31 PM  
 Subject: Re: Our group presentation

Dear Ken,

I am happy with Yoshiko's suggestion about the presentation. Let's talk about it more tomorrow.

Best wishes,  
John

大問2 (B)

今から50年の間に起こる交通手段の変化と、それが人々の生活に与える影響を想像し、50～60語の英語で具体的に記せ。

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(大問3 リスニング問題は省略)

大問4 (A)

次の英文の下線部(1)~(5)には、文法上あるいは文脈上、取り除かなければならない語が一語ずつある。

解答用紙の所定欄に該当する語を記せ。

I have had a hard time explaining what it means for me to “speak” three languages. I don’t think of it as “speaking” them --- it feels more like I live in them, breathe them. (1)There was a time in my life when I was trying to explain that I was not really multilingual, but rather than monolingual in three languages. That’s how it felt for those years when my life was really split between three worlds. (2)Today I hardly seem to have settled into a more integrated lifestyle, one in which I weave in and out of my three languages and the various worlds they are attached to. I keep track of my relation to them, a complex relation, never stable, always powerful, sometimes frightening or embarrassing, sometimes exciting, but never neutral.

(3)I can see my life as a set of relations to languages, those that surrounded me, those I refused to learn, those I badly wanted to learn, those I studied professionally, those --- the intimate ones --- I think in, write in, am funny in, work in them. (4)Sometimes I catch myself envying intensely at those monolinguals who were born, grew up, have lived all their adult life in one language. (5)I miss the feeling of comfort, of certainty, of control I imagine they have, unaware as they usually are that it could not be otherwise.

- (1).....
- (2).....
- (3).....
- (4).....
- (5).....

大問4 (B)

次の英文の下線部(1)(2)(3)を和訳せよ。

There is no arguing that we are currently undergoing a profound change in our approach to communication. The two most obvious symbols of that change are the mobile phone and e-mail. Looking at the impact of the emergence of these communication tools on our social landscape, the change occurring in telephonic communication may seem the greater of the two because it is so obvious, on the street, in the elevator, in the restaurant. But this is only a technological change. (1)A phone without wires, so small that it fits in a pocket, containing such miracles of technology that one can call home from the back seat of a London taxi without thinking twice, is still just a phone.

In contrast, (2)the shift in the nature of mail is by far the more profound, and its implications are nothing less than revolutionary. E-mail is, apparently, merely letter writing by a different means. Looking at it more closely, however, we find that this new medium of communication is bringing about significant changes in the nature of human contact as well as in our ability to process information. The apparent simplicity of its use may lead us to think that we know everything that we need to know about it, but in fact (3)e-mail has overtaken us without our really understanding what it is.

- (1).....
- .....
- (2).....
- .....
- (3).....
- .....

大問5 次の短編小説の一節を読み、以下の問いに答えよ。

Jackie leant idly against the window frame, staring out at the beach in front of the house. In the distance down the beach she could see the familiar figure in the blue dress slowly coming towards the house. She loved these moments when she could watch her daughter in secret. Toni was growing up fast. (1)It seemed no time since she and the confused little seven-year-old had arrived here. How Toni had adored her father! When she was still only five or six years old, they would all make the long trip from the city to the beach every weekend, and Toni would go out with him into the wildest waves, bravely holding on to his back, screaming in pleasure as they played in the waves together. She had trusted him entirely. And then he had left them. No message, no anything. Just like that.

She could make ( 2 ) Toni's figure quite clearly now. She saw her put her shoes onto the rocks near the water's edge and walk into the wet sand, then just stand there, hand on hip, head on an angle, staring down. What was she thinking? Jackie felt a surge of love that was almost shocking in its intensity. "I'd do anything for her," she found herself saying aloud, "anything."

It was for Toni that she had moved from the city to this house eight years ago, wanting to put the ( 3 ). Surely, up here it would be simpler, safer, more pleasant to bring up a child. And indeed, it had been. Toni had been able to ride her bicycle to school, run in and out of her friends' homes, take a walk around the beach, in safety. There had never been a lack of places for her to go after school while Jackie was at work. They had a comfortable relationship, and Toni had given her ( 4 ) whatsoever. So, only three years to go and then she, Jackie, planned to return to the city, move in with Tim, marry, maybe.

She glanced up at the clock. Four o'clock. He'd be here at seven, just like every Friday. Besides Toni, he was the person she loved best in the world. Every weekend he came and they lived together like a family. He never put pressure on her to go and live in the city with him. He understood that she wanted to (5)see Toni through school first. He said he was prepared to wait until she was ready. Jackie loved the arrangement. Not seeing each other through the week had kept their relationship fresh. They had so much to tell each other each Friday. Getting ready --- shampooing her hair, blow-drying it, putting on her favourite clothes, looking pretty --- was such fun. Jackie thanked God for Toni and Tim.

\* \* \*

Toni pressed her feet further into the wet sand. She didn't want to go home yet --- she had too much to think about. At home Mum would be rushing about, singing, cleaning, getting ready for

Tim, all excited. Someone her Mum's age behaving like that! Toni thought it was (6)a bit too much, really --- it was almost a bit pitiful. Although Tim was great --- she had to admit that. One part of her was really pleased for Mum, that she had a partner; the other part was embarrassed. No, she wouldn't go home just yet.

(7)She looked up and down the beach. She was relieved it was empty. She'd hate to be seen in this dress --- it was so fancy and girlish. She had just applied for a Saturday job and Mum had made her wear this. "It's lovely, darling, and you look so pretty in it. It's important to make a good impression," she'd said. Well, she'd got the job. Mum would be waiting now, wanting to hear the news, and she'd get all excited as if she'd won a prize or something. She wished sometimes that Mum didn't get so carried away with things. There was one good thing, though. She'd have some money of her own for once, and would be able to buy some of the clothes she wanted for a change.

One thing was for sure. She wasn't going to wear this dress tonight! She'd wear it as she left the house to make sure Mum let her go, but then she'd change at Chrissy's place. It had all been a bit complicated --- she'd never had to do (8)this before. Just getting Mum to give her permission to go to the dance had been hard enough.

"Will there be supervision there?" "Will there be alcohol?" "What time does it finish?" On and on --- like a police investigation. Other kids' parents didn't go on like Mum. But at least she'd been allowed to go. It was her first time to the beach club!

Chrissy had told her not to even ask. "Just get out of the window when your Mum and her boyfriend have gone to bed," had been her advice. "Things don't get started until late anyway." But Toni couldn't do that, not this first time. Anyway, Mum had said okay after Toni had done some pretty fast talking; she'd had to tell a few lies, but in the end Mum had swallowed them. "Chrissy's parents are taking us. Five parents will be supervising. Alcohol's not allowed. I'll be home by eleven-thirty."

She was especially embarrassed by the last one. Eleven-thirty --- no chance! Still, once she got out of the house, Mum wouldn't know. Toni twisted her feet deeper into the sand. She was just a tiny bit uneasy about all the lies. But, why should she worry? Everyone had to do it. She'd never go anywhere if she didn't. Look at Chrissy. (9)Look at what she had been getting away with for a year now.

(1) 下線部(1)の言い換えとして最も適切な表現を次のうちから一つ選び、その記号を記せ。

- ア It appeared to be so long ago that
- イ It seemed like only yesterday that
- ウ It had always been such a rush since
- エ It allowed her little time to think since

解答欄.....

(2) 空所(2)を埋めるのに最も適切な一語を記せ。

解答欄.....

(3) 下に与えられた語を適切な順に並べ替えて空所(3)を埋め、その 2 番目と 5 番目にくる単語を記せ。

ただし、下の語群には、不要な語が一つ含まれている。

again / and / behind / child / past / start / them

解答欄.....

(4) 空所(4)を埋めるのに最も適切な表現を次のうちから一つ選び、その記号を記せ。

- ア no joy      イ little joy      ウ no trouble      エ little trouble

解答欄.....

(5) 下線部(5)とほぼ同じ意味の表現を次のうちから一つ選び、その記号を記せ。

- ア see Toni off to school
- イ help Toni come first in school
- ウ wait until Toni finished school
- エ enjoy watching Toni go to school

解答欄.....

(6) 下線部(6)の a bit too much という Toni の思いは、母親のどのような態度に対するものか。20～30 字の日本語で述べよ。


(7) (7)の段落に描かれている Toni の心理について当てはまるものを次のうちから一つ選び、その記号を記せ。

- ア She is looking forward to receiving the prize she has won.
- イ She is looking forward to spending her wages on new clothes.

ウ She is looking forward to hearing her mother's news about the job.

エ She is looking forward to making a good impression on her employers.

解答欄.....

(8) 下線部(8)の this が表す内容を次のうちから一つ選び、その記号を記せ。

- ア buy a dress      イ stay with her friend
- ウ be dishonest with her mother      エ leave the house through the window

(9) 下線部(9)を和訳せよ。ただし、she が誰を指すかを明らかにすること。

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(10) この文章の前半で描かれている Toni の子供時代について、正しいものを一つ次のうちから選び、その記号を記せ。

- ア Toni's father moved to the city to live by himself when Toni was seven.
- イ Toni and her parents lived in a house by the beach until she was seven.
- ウ Toni and her mother moved to a house by the beach when Toni was seven.
- エ Toni's father came to the beach to see her on the weekend until she was seven.

解答欄.....

(11) 以下は、この文章で表現されている Jackie と Toni の心情について述べたものである。空所(a)～(d)を埋めるのに最も適切な動詞を下語群から選び、その記号を記せ。語群の動詞は原形で記されている。同じ記号は一度しか使えない。

Jackie doesn't ( a ) that her daughter is quickly growing up, more quickly, perhaps, than she would like. She ( b ) to see that Toni now has her own thoughts and ideas. Toni still ( c ) her mother but feels a little uncomfortable with the relationship and wants to ( d ) more independent.

- ア become    イ fail    ウ live    エ love    オ realize    カ succeed    キ wish

解答欄 a..... b..... c..... d.....

大問1

(A) 多くの人はある人物の行動を知ってから、それが容貌に現れていると考え、また逆に外見から人格を判断するが、外見と人格には直接の関係があると考えるのは危険なことである。(80字)

(別解) 我々は人の行動に対する精神的判断の根拠をその人の外見に求めるが、外見から信頼に足る結論を導き出すのは困難であり、最初の判断が誤っていることも多い。(73字)

(B) (1) ウ (2) (a) (3) ウ→エ→ア→イ (4) ウ

大問2

(A) (1) I'm afraid it wouldn't work, because if each only did his or her part, the total result would lack integrity. (20 words)

(2) we meet together to discuss which topic to choose, how to conduct the research and how to present our ideas. (20 words)

(別解例)

(1) I don't think it is a good way, because the whole is more than the total of its parts. (19 words)

(2) we get consensus on the research topic and approach in order to work together to succeed in the presentation. (19 words)

(B) There would probably be the greatest change in the area of air travel. At that time, supersonic airliners would be the norm, and people would be able to fly to any major city in the world in less than one hour that advance would enable people to move far more easily, and there might be fewer borders between countries.

(57 words)

(別解) I think 50 years from now we won't have transportation that requires fossil fuels to function. We might have the same types of vehicles, but they will run on alternative fuels

such as hydrogen-fuel cells. I think it will be mandatory to have such a vehicle. This will improve the environment and turn around the effects of global warming. (59 words)

大問3

(A) (1) ウ (2) イ (3) ア (4) ア (5) エ

(B) (1) ア (2) 30,000 (3) エ (4) ウ (5) イ

(C) (1) ウ (2) イ (3) ウ (4) ウ

(5) how about taking a short break from our discussion

大問4

(A) (1) than (2) hardly (3) them (4) at (5) not

(B)

(1) 電話線のない電話、ポケットに収まるほど小さく、ロンドンのタクシーの後部座席からでも思い立ったらすぐ家に電話できるという奇跡のようなテクノロジーを内蔵した電話ではあっても、それはしょせん電話にすぎない。

(2) 文書による通信のありようの転換ははるかに根源的なもので、それがはらんでいる意味合いはまさに革命的なものだ。

(3) 電子メールは、それがどういうものであるか我々がよく理解しないうちに我々を飲み込んでしまったのである。

大問5

(1) イ (2) out (3) past behind them and start again (2番目 behind 5番目 start)

(4) ウ (5) ウ (6) 年甲斐もなく、そわそわしながら恋人を待っている態度。(26字)

(7) イ (8) ウ

(9) クリシーがこの一年間まんまとやってのけていたことを見るがいいわ。

(10) ウ (11) (a) オ (b) イ (c) エ (d) ア