

## Lesson 6 A Space Elevator 評価問題 A

[1] 下線部の発音が他の3つと異なるものを1つずつ選び、記号を○で囲みなさい。

- |                           |                        |                                  |                              |
|---------------------------|------------------------|----------------------------------|------------------------------|
| (1) a. r <u>o</u> tation  | b. g <u>e</u> neration | c. c <u>a</u> ble                | d. <u>a</u> ccess            |
| (2) a. <u>h</u> eat       | b. r <u>e</u> ach      | c. <u>i</u> nste <u>a</u> d      | d. <u>e</u> asy              |
| (3) a. p <u>a</u> ssenger | b. s <u>a</u> ttellite | c. g <u>e</u> ner <u>a</u> tion  | d. g <u>r</u> av <u>i</u> ty |
| (4) a. s <u>u</u> ppose   | b. nan <u>o</u> tube   | c. s <u>o</u> lution             | d. <u>i</u> ncluding         |
| (5) a. c <u>l</u> imber   | b. s <u>c</u> ientist  | c. e <u>n</u> viron <u>m</u> ent | d. d <u>i</u> stance         |

[2] 最も強く発音する箇所を1つずつ選び、記号を○で囲みなさい。

- |   |  |                                  |  |
|---|--|----------------------------------|--|
| (1) fu <u>l</u>                           | (2) car <u>g</u> o                         | (3) be <u>y</u> ond              | (4) pas <u>s</u> en <u>g</u> er          |
| ア イ                                       | ア イ  | ア イ                              | ア イ ウ                                    |
| (5) in <u>d</u> us <u>t</u> ry            | (6) in <u>t</u> er <u>v</u> iew <u>e</u> r | (7) in <u>c</u> red <u>i</u> ble | (8) re <u>a</u> l <u>i</u> s <u>t</u> ic |
| ア イ ウ                                     | ア イ ウ エ                                    | ア イ ウ エ                          | ア イ ウ エ                                  |
| (9) dif <u>f</u> i <u>c</u> ul <u>t</u> y |  |                                  |  |
| ア イ ウ エ                                   |  |                                  |  |

[3] CとDの関係が、AとBの関係と同じになるように空所に適切な語を書きなさい。

- | A            | B         | C          | D     |
|--------------|-----------|------------|-------|
| (1) discover | discovery | solve      | _____ |
| (2) heavy    | light     | back       | _____ |
| (3) face     | facing    | explore    | _____ |
| (4) week     | weak      | wait       | _____ |
| (5) contest  | contests  | difficulty | _____ |

[4] ( )内の語を適切な形に変えて英文を完成しなさい。ただし、(1)には同じ形の語があてはまる。

- (1) \_\_\_\_\_ and \_\_\_\_\_ people go abroad. ( many )  
 = The number of people who go abroad is increasing. \*increase「増える」
- (2) He is a \_\_\_\_\_ man with a strong influence. ( power )
- (3) I found some \_\_\_\_\_ in finding a new job. ( difficult )

[5] 意味がとおるように、( )内に入る適切な語句を下から選び、記号で答えなさい。

- (1) I want to study in France ( ) learn French.
- (2) She talked ( ) nothing had happened to her.
- (3) It is very cold today. How about reading books in the library ( ) playing outside during lunch break?
- (4) The audience was angry ( ) our poor performance.

ア instead of	イ in order to	ウ as if	エ because of
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[6] 次の日本語の意味を表すように, [ ] 内の語句を並べかえて英文を完成しなさい。

- (1) 明日の今頃, 私は上空を飛行機で飛んでいることだろう。

I [ be / time / in the sky / will / this / flying ] tomorrow.

I \_\_\_\_\_ tomorrow.

- (2) そのレポートを書くとしたら丸々1週間かかるのではないかなあ。

I'm afraid [ take / would / to / all week / finish / me / it ] the report.

I'm afraid \_\_\_\_\_ the report.

- (3) かれらは結婚して10年になる。

They [ been / years / for / have / ten / married ].

They \_\_\_\_\_ .

[7] 意味がとおるように, 下から適切な語を選び, 必要に応じて適切な形に変えて空所へ書きなさい。

- (1) A: How many people came?

B: There were five persons, not \_\_\_\_\_ Tom. He had a lot of work to do.

- (2) I feel as if I've met you before because I've \_\_\_\_\_ a lot about you.

- (3) A: You are 20 minutes late.

B: I'm sorry. The bus was \_\_\_\_\_ to arrive at 4:45, but we were in a heavy traffic jam.

\*traffic jam「交通渋滞」

- (4) Mr. Green has been \_\_\_\_\_ to see you since four o'clock.

- (5) The president loves peace. He has \_\_\_\_\_ having a major conflict. \*conflict「争い」

- (6) His work \_\_\_\_\_ beyond just teaching English. He's also a coach for the basketball club.

- (7) How fast they were to escape! They've already \_\_\_\_\_ away.

- (8) He has already \_\_\_\_\_ the pen he bought yesterday.

- (9) I had been \_\_\_\_\_ for it since this morning. Where did you find it?

including suppose look run avoid extend lose wait hear

Lesson 6 A Space Elevator 評価問題 B

[1] 次の英文を読んで、以下の設問に答えなさい。

I: Humans have used rockets to go into space. ① [there / I / are / with / hear / problems / some] them.  
S: I think rockets have three major problems. The first is the possibility of an accident. ( A ) The second is the cost. ( B ) The third is the need to train passengers for space travel in rockets.  
I: Are there any solutions?  
S: Yes. One of the solutions is a space elevator. Have you ever heard of it? I: ( C )  
S: It is an elevator that would run between a satellite and the earth. Passengers would ride on the elevator instead of a rocket to go into space.

- (1) 下線部①が「私はそれらにはいくつかの問題があると聞いている。」という意味になるように、[ ] 内の語を並べかえなさい。( )
- (2) 空所(A)～(C)には、以下のどの文が入るか。記号で答えなさい。A( ) B( ) C( )  
ア. Rockets need a huge amount of expensive fuel.  
イ. Yes, but could you tell me about it?  
ウ. Rocket fuel is very powerful and dangerous.
- (3) 宇宙エレベーターに関して説明した以下の文の空所に適切な日本語を補いなさい。  
宇宙エレベーターは( )と( )の間を移動することになるだろう。乗客は( )へ向かうのに、ロケット( )このエレベーターに乗ることになる。

[2] 次の英文を読んで、以下の設問に答えなさい。

S: ① A box (a ) a “climber” is (b ) to travel back (c ) forth along a cable. ② Researchers (a ) (b ) (c ) hard (d ) design it. There are contests for the design throughout the world, ( ③ ) Japan.  
I: I see. I've seen a picture of the contest and read the idea of using solar power for the box. By the way, ④ [ would / far / have / travel / how / to / it ]?  
S: We plan to ⑤ place the satellite 36,000 km above the earth. It would ⑥ take the box about one week to reach there. I: Why 36,000 km?  
S: At this distance, the satellite can match the speed of the earth's rotation. Thus, ⑦ it will look (a ) (b ) it were standing (c S ) in space.

- (1) 下線部①が「『クライマー』と呼ばれる箱がケーブルに沿って、行ったり来たりすることになっている。」という意味になるように、空所(a)～(c)に適切な語を書きなさい。
- (2) 下線部②が「研究者たちはそれを設計するのに、一生懸命取り組み続けている。」という意味になるように、空所(a)～(d)に適切な語を書きなさい。ただし、動詞は work を必要に応じて適切な形に変えて使うこと。
- (3) 「～を含めて」という意味になるように、空所③に適切な語を書きなさい。( )
- (4) ④の[ ]内の語を、意味がとおるように並べかえなさい。[ ]

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3年2・5帯 3- [ ] No [ ] Name [ ]

(5) 下線部⑤は以下のどの place と同じ用法か、記号で答えなさい。( )

ア. He won first place in the race. イ. There is no place like home. ウ. She placed the bed by the window.

(6) 下線部⑥は以下のどの take と同じ用法か、記号で答えなさい。( )

ア. He may take a long time to get well. イ. Take things as they are. ウ. This table doesn't take much space.

(7) 下線部⑦が「それはまるで宇宙で静止しているかのように見えるだろう」という意味になるように、空所(a)～(c)に適切な語を書きなさい。ただし、(c)は書き出し文字の指示にしたがうこと。

[3] 次の英文を読んで、以下の設問に答えなさい。

I : The cable used for the elevator will be (A ) long and heavy. Won't the satellite fall because of the weight of the cable?

S : In order to avoid that, we will extend the cable far beyond the satellite and put an extra weight at the end of it.

I : That's incredible!

S : Yes, but the cable has to be light and strong (B ). Scientists ① ( ア were looking / イ have looked / ウ had been looking ) for the right material until carbon nanotubes were discovered.

I : What are they?

S : They are a new material which is (C ) lighter and stronger than steel. ② [ realistic / makes / this material / a space elevator ]

(1) 空所(A)～(C)に入る最も適切な語を、それぞれ下から選んで書き入れよ。 

much	very	enough
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(2) ①の( )内から適切なものを選び、記号で答えなさい。( )

(3) ②の [ ] 内の語句を、意味がとおるように並べかえなさい。

[ ]

[4] 次の英文を読んで、以下の設問に答えなさい。

I : Are there any difficulties you are facing now?

S : Well, in space, we have to think about the influence of the sun's heat, space debris, and so (ア ). Some of these problems have already been (A ), but others still (B ). We are (C ) on finding solutions.

I : What are the benefits of a space elevator?

S : We will have easier access to the zero gravity environment. It will help us ( D ) new discoveries in science and industry.

I : What (イ ) space travel?

S : A space elevator will be able to carry passengers and cargo to the satellite. From there, we can send more satellites ① ( far ) into space. So ② more and more people will be exploring outer space in the next generation.

I : That's fantastic!

(1) 空所(ア), (イ)にそれぞれ適切な語を書きなさい。

(2) 空所(A)～(D)に入る最も適切な語をそれぞれ下から選び、必要に応じて適切な形に変えて書きなさい。

work	make	solve	remain
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(3) ①の( )内の語を「より遠くへ」という意味を表すように、適切な形に変えなさい。( )

(4) 下線部②を日本語に直しなさい。

Lesson 6 A Space Elevator 評価問題A 解答

- [1] (1) d [æ] (2) c [e] (3) c [ei]  
(4) a [ə] (5) d [i]
- [2] (1) ア (2) ア (3) イ (4) ア (5) ア  
(6) ア (7) イ (8) ウ (9) ア
- [3] (1) solution (2) forth[front]  
(3) exploring (4) weight (5) difficulties
- [4] (1) More, more (2) powerful  
(3) difficulty[difficulties]
- [5] (1) イ (2) ウ (3) ア (4) エ
- [6] (1) will be flying in the sky this time  
(2) it would take me all week to finish  
(3) have been married for ten years
- [7] (1) including (2) heard (3) supposed  
(4) waiting (5) avoided (6) extends  
(7) run (8) lost (9) looking

Lesson 6 A Space Elevator 評価問題 B-2 解答

- [1] (1) I hear there are some problems with  
(2) (A) ウ (B) ア (C) イ  
(3) 衛星, 地球, 宇宙, の代わりに
- [2] (1) (a) called (b) supposed (c) and  
(2) (a) have (b) been (c) working  
(d) to  
(3) including  
(4) how far would it have to travel  
(5) ウ  
(6) ア  
(7) (a) as (b) if[though] (c) still
- [3] (1) (A) very (B) enough (C) much  
(2) ウ  
(3) This material makes a space elevator realistic
- [4] (1) (ア) on (イ) about  
(2) (A) solved (B) remain (C) working  
(D) make  
(3) farther  
(4) 次世代にはますます多くの人々が宇宙を探索することだろう