

問題・解答
用紙番号

47

の解答用紙に解答しなさい。

英 語

〈受験学部・学科〉

理工学部(住環境デザイン学科・建築学科・都市環境工学科・機械工学科・電気電子工学科)

問題は100点満点で作成しています。

I 次の文章を読み、設問に答えなさい。なお、文章の左にある数字は段落の番号を表しています。
(34点)

- 1 The first floating wind farm is located 25 kilometers from the northern city of Peterhead, off the coast of Scotland. It rides some of the stormiest waters in the North Sea. It was a big gamble⁽¹⁾ and has taken ten years to develop. The company that developed these turbines* is Hywind Scotland Ltd, which is backed⁽²⁾ by Equinor (75%), a Norwegian company, and Masdar (25%) of the United Arab Emirates (UAE).
- 2 Offshore wind farms on the continent of Europe are based in shallow water. They were started as renewable energy options with a high price tag. However, they have now become a mainstream⁽³⁾ power source. But they are not as successful as Hywind Scotland.
- 3 The reason for the success of the Scottish wind farms is their size and location. The five 6-megawatt (MW) floating turbines stand above the sea at 175 meters and reach down to 75 meters below the surface. This balances the huge tower and the rotor blades* that are 154 meters in diameter. Three suction anchors* hold each turbine in place. Their enormous⁽⁴⁾ height above the sea combined with their location far out to sea means that they catch a steady wind. Thus, they are able to provide more power, more evenly⁽⁵⁾ than their rivals.
- 4 In 2015, after 2 years of tests off the Norwegian coast, the company was

given permission to ⁽⁶⁾install a wind farm in Scotland. Manufacturing started in Spain, Norway and Scotland with a budget of 152 million British pounds (GBP). ⁽⁷⁾Designed to power 20,000 homes, Hywind Scotland was commissioned* in 2017 at a final cost of 264 million GBP, three times the cost of offshore wind farms and ten times the cost of natural gas.

5 However, after three years ‘Hywind Scotland’ is breaking world records for maximum energy output. Equinor, a major energy company, says that its investment has paid off* and that Hywind Scotland has cut costs by 40%. The floating wind farm has global ⁽⁸⁾potential.

6 Scottish Renewables Chief Executive said, “Hywind’s ⁽⁹⁾presence in Scottish waters is a reminder that as the windiest country in Europe with some of the deepest waters, Scotland is perfectly placed to take advantage of floating turbine technology.”

(出典： *Britain Today: Culture, Society and History*, James C. House/三好道子著，松柏社)

(注) turbine* タービン

rotor blade* 回転翼羽根

suction anchor* 海域に浮体構造物を固定するための機材

commission* 委託する

pay off* 利益が出る

問1 下線部(1)～(9)の文章中での意味として最も適切なものを、それぞれの番号の(A)～(D)の中から一つずつ選びなさい。

- | | | | |
|---------------------|-----------------|------------------|------------------|
| (1) (A) consumption | (B) risk | (C) task | (D) prejudice |
| (2) (A) sponsored | (B) attacked | (C) divided | (D) ignored |
| (3) (A) flooded | (B) minor | (C) experimental | (D) established |
| (4) (A) huge | (B) independent | (C) ambitious | (D) various |
| (5) (A) mainly | (B) sincerely | (C) constantly | (D) economically |
| (6) (A) put aside | (B) set up | (C) restore | (D) import |
| (7) (A) Painted | (B) Reduced | (C) Prohibited | (D) Planned |

- (8) (A) possibilities (B) popularity (C) population (D) outcomes
(9) (A) gift (B) substance (C) existence (D) policy

問2 (1)~(4)の質問の答えとして最も適切なものを、それぞれ下の(A)~(D)の中から一つずつ選びなさい。

- (1) According to paragraphs 1 and 2, which of the following is true?
(A) Offshore wind farms in continental Europe were expensive to build.
(B) Offshore wind farms in continental Europe were all built in Scotland.
(C) Offshore wind farms in continental Europe were not a renewable energy option.
(D) Hywind Scotland was not as successful as offshore wind farms in continental Europe.
- (2) According to paragraph 3, which of the following is true?
(A) Scottish wind farms are stable because they are built on solid ground.
(B) Wind farms in Scotland generate electricity by sending wind to the sea.
(C) Wind farms in Scotland were developed to reduce electricity consumption.
(D) The factors in the success of the Scottish wind farms are height and placement.
- (3) According to paragraph 4, which of the following is true?
(A) Scotland was not included in building its wind farms.
(B) It was Norway that gave Scotland permission to install wind farms.
(C) An evaluation of the project was conducted in Norway before it received approval.
(D) The final costs recorded by Hywind Scotland in 2017 were lower than the budget set in 2015.

- (4) According to paragraphs 5 and 6, which of the following is true?
- (A) The natural conditions in Scotland are unsuitable for utilizing floating turbine technology.
 - (B) The environmental conditions around Scotland are ideal for floating turbine technology.
 - (C) Hywind Scotland has failed to break the world record for maximum energy output.
 - (D) Hywind Scotland has successfully reduced its workforce by 40%.

Ⅱ 次の1～12の英文の空所に入る最も適切なものを、それぞれ下の(A)～(D)の中から一つずつ選びなさい。(24点)

1. Robert could not help _____ when he read the letter from his daughter.
(A) smiled (B) smiles (C) smiling (D) to smile
2. This is a very valuable painting, and the owner will accept _____ ten thousand dollars for it.
(A) no more than (B) no less than (C) at most (D) as many as
3. This rule does not necessarily apply _____ all staff members.
(A) to (B) with (C) by (D) on
4. The next train arriving at this platform is _____ for Tokyo.
(A) provided (B) exchanged (C) suitable (D) bound
5. You can trust Mr. Andrews. He's always as _____ as his word.
(A) long (B) far (C) much (D) good
6. No matter _____ fast she runs, she will miss the train.
(A) how (B) when (C) which (D) where
7. Alex finally admitted _____ responsible for the problem.
(A) in (B) being (C) to (D) to be
8. You sound like you know the story. You _____ have seen the movie before.
(A) will (B) may not (C) must (D) can
9. Linda is going to turn down John's offer! I would not do that if I _____ her.
(A) were (B) had been (C) would be (D) would have been
10. Jack kindly called the hotel and _____ reservations for his friends.
(A) did (B) gave (C) made (D) said

11. Ken used to go fishing on weekends, but now he _____ does because he has been busy this year.
- (A) frequently (B) rarely (C) always (D) almost
12. Samantha arrived at the airport early in the morning _____ to get a good seat on the flight.
- (A) in order (B) in turn (C) with regard (D) on account

Ⅲ 次の1～5の日本語の意味を表すようにそれぞれ下の(A)～(G)の語句を並べかえて空所を補い、最も適切な英文を完成させるとき、(1)～(15)に入る語句の記号を答えなさい。(15点)

1. 優勝がかかった試合は、台風の接近により中止になりました。

The match (1)() () (2)() (3)() the approaching typhoon.

- (A) off (B) to (C) called (D) for
(E) was (F) due (G) the championship

2. 旅行中にあなたがどのホテルに滞在するのかお知らせください。

Please let (4)() () () (5)(6)() during your trip.

- (A) you (B) hotel (C) which (D) know
(E) us (F) staying at (G) will be

3. 翔太はまるで母語のように流暢に英語を話します。

Shota speaks English fluently, () (7)() (8)() (9) ().

- (A) tongue (B) it (C) as (D) his
(E) if (F) mother (G) were

4. その経済学者が言っていることを理解するのは、決して簡単ではありませんでした。

It was far (10)() (11)() (12)() () was saying.

- (A) of (B) easy (C) sense (D) the economist
(E) from (F) what (G) to make

5. ジャッキー・ロビンソンは、メジャーリーグで最初の黒人選手になることで人種差別の壁を破りました。

Jackie Robinson (13)() (14)() (15)() () in Major League Baseball.

- (A) player (B) by (C) black (D) the color barrier
(E) becoming (F) broke (G) the first

IV 次の1～5の会話の空所に入る最も適切なものを、それぞれ下の(A)～(D)の中から一つずつ選びなさい。(15点)

1. Olivia: I'm so hungry. Let's have a bite to eat on campus.

Yuta: What do you feel like having?

Olivia: _____

Yuta: Sounds perfect. Let's go to the cafeteria on the second floor.

(A) I feel hungry since I didn't eat anything for breakfast.

(B) Some pizza would be good.

(C) How about the new restaurant downtown?

(D) Where's the best place to visit around here?

2. Mother: Are you going out tonight with Justin?

Carla: _____ We're seeing a movie.

Mother: Promise to be home by 10:00 p.m.

Carla: It starts at 6:30. I'm sure I'll be home before that.

(A) That's great. Of course it's possible.

(B) That's right. Are you sure about it?

(C) Not yet. I'm trying to find the time.

(D) Yeah. Don't you remember?

3. Takuya: Hi, Karen. Here's a little something for you. I hope you like it.

Karen: Thanks so much. _____

Takuya: My pleasure. I'm glad you like it.

Karen: Anyway, come in. It's so nice to see you. It's been a long time.

(A) It's my favorite chocolate.

(B) I'm fine. I can't complain.

(C) Make yourself at home.

(D) I'm happy you could make it.

4. Local: Do you need some help? You look lost.

Tourist: Yes, thank you. I'm looking for Osaka Castle.

Local: _____

Tourist: That's good. I can't walk much more.

(A) Well, I'm sorry to say that you are walking in the wrong direction.

(B) Osaka Castle is one of the highlights of the city.

(C) Just keep going along this road. It isn't far.

(D) I don't know my way around the city very well.

5. Hiro: I really hate it when the bus is late.

Chloe: I know. This is the third time this week.

Hiro: I have a job interview in 30 minutes. I don't think I'll make it in time.

Chloe: _____ I'm sure you'll make it then.

(A) Why don't you take a taxi instead?

(B) Let's find a job together, shall we?

(C) Why don't we have the interview tomorrow?

(D) Could you cancel the interview right now?

V 次の広告をもとに、1～4の質問の答えとして最も適切なものを、それぞれ下の(A)～(D)の中から一つずつ選びなさい。(12点)

Fun Run — Open to All Ages!

Entry Fee: \$130

Date: April 30

Start Time: 8:15 a.m.

Distance: 5 kilometers

Help us meet our goal of raising \$800,000!

Come to run, walk, donate, or just cheer everyone else on!

Organizer: Blain Pipe Co.

To Benefit: Eunns Children's Hospital

This treatment center has offered free care to children from low-income families for over 80 years. Now it is in need of our help to get new equipment. Join our upcoming event to ensure that these children continue to receive care.

All participants will receive a gift coffee mug and T-shirt, as well as feel pride in helping out our community.

How to sign up:

For registration, go to www.funruncity.org. The entry fee can be paid with most major credit cards.

How to participate:

Please show up at least 45 minutes in advance. Registered participants will be given a printed number at that time. This should be pinned on the participant's shirt prior to the start of the event.

Course:

Zinner Park → Hyde Avenue → Maowinc Bridge → Sumner River Walk

Water will be passed out to participants during and after the event. Volunteer medical staff will also be present to provide any support required.

(出典 : *TOEIC® TEST Trainer Target 470*, Revised Edition, Masahiko Yamaguchi/George W. Pifer 著, センゲージ ラーニング)

1. What does the Blain Pipe Co. want to do?
 - (A) Open a new hospital for children.
 - (B) Raise money for new medical devices.
 - (C) Create exercise programs for the elderly.
 - (D) Collect \$800,000 to make T-shirts.

2. According to the notice, how can people register for the event?
 - (A) By donating a coffee mug to the organization.
 - (B) By choosing a printed number.
 - (C) By paying the entry fee online.
 - (D) By helping local people get out of trouble.

3. Which of the following is NOT something participants are asked to do?
 - (A) Arrive by 7:30 a.m. on the day of the event.
 - (B) Sign up for the event on the designated website.
 - (C) Pin a printed number on their T-shirts.
 - (D) Have a medical checkup before the event.

4. According to the notice, which of the following is true?
 - (A) Participants will feel proud of supporting children in need.
 - (B) The event is held to raise money for participants who need care.
 - (C) Participants will only get a bottle of water for taking part in the event.
 - (D) Participants must complete a run of 5 kilometers within 45 minutes.