

問題・解答
用紙番号

18

の解答用紙に解答しなさい。

英 語

〈受験学部・学科〉

法学部、外国語学部、経済学部、経営学部、
理工学部、薬学部、看護学部、農学部

問題は100点満点で作成しています。

I

次の英文を読み、設問に答えなさい。(32点)

- 1 Some ⁽¹⁾inventions make our lives easier. Others make us safer. Driverless cars have the potential to do both. It's a cutting-edge field with companies racing to overhaul* one of the world's biggest industries. If everything goes as planned, it may soon be ⁽²⁾common to sit back and relax as robotic cars drive us around.
- 2 Self-driving cars fall into two main categories. First, there are "autonomous" cars. They can be controlled by a person, a computer, or a combination of the two. General Motors already has a fleet* of these cars in San Francisco. The second, more advanced type of driverless car is ⁽³⁾entirely controlled by computers and may not even have a steering wheel. Nissan, Tesla, Volvo, and other car companies are involved in this field. So are technology and service firms like Apple, Uber, and Intel.
- 3 Both varieties are powered by AI (artificial intelligence) brains which start by gathering information about road conditions. The cars' tools ⁽⁴⁾include cameras, sensors, GPS, and lidar (a combination of laser and radar). Details are compiled about other vehicles, bikes, pedestrians, and more, creating a virtual image of the surroundings. After the AI analyzes the information, it tells the car to stop, go, turn, and so on.
- 4 There are pros and cons to these ⁽⁵⁾amazing vehicles. On the plus side, they

are considered very safe. Currently, 90% of accidents are caused by driver error. Self-driving cars could greatly reduce the accident rate. Plus, since these automobiles are highly efficient, air pollution and road congestion* will decrease. There's also the matter of parking lots, which use up to 30% of the real estate in some cities. Once a passenger exits a driverless car, it can simply continue on its way without parking. That means the asphalt covering parking lots can be replaced with beautiful green grass.

5 Yet there are ⁽⁶⁾drawbacks. While trucking companies will save billions of dollars by switching to driverless fleets, millions of drivers will lose their jobs. There are also safety ⁽⁷⁾concerns over hackers taking control of robotic vehicles. Furthermore, a malfunction in the electronics or AI could have terrible consequences.

6 As we transition to driverless cars, cities will need to adjust. At first, they'll likely have to build special road lanes. Traffic lights will also need upgrading so they can communicate with smart vehicles. Such investments should be worth it. According to research by Strategic Analytics, the industry ⁽⁸⁾shift will lead to many business opportunities, adding seven trillion dollars to the global economy. That incredible payout may be the main fuel moving us toward a self-driven future.

(Source: *Science and Tech Sense*, Nan'un-Do, 2018)

(注) overhaul* 発展させる

fleet* 一団

congestion* 渋滞

問1 下線部(1)~(8)の語句の文中での意味として最も適切なものを、(A)~(D)の中から一つ選びなさい。

- (1) (A) invitations (B) presentations (C) renovations (D) creations
- (2) (A) fashionable (B) widespread (C) desirable (D) important
- (3) (A) completely (B) quickly (C) slowly (D) rarely
- (4) (A) conclude with (B) consist of (C) imply (D) intend
- (5) (A) comfortable (B) disappointing (C) general (D) unbelievable
- (6) (A) backtracks (B) disadvantages (C) pluses (D) opportunities
- (7) (A) ideas (B) drivers (C) worries (D) nets
- (8) (A) spot (B) company (C) car (D) change

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

- (1) According to paragraphs 1 and 2, which of the following is true?
 - (A) Self-driving cars can make our lives easier but not safer.
 - (B) The more advanced driverless cars have steering wheels.
 - (C) There are three kinds of driverless cars.
 - (D) General Motors has already built “autonomous” cars.
- (2) According to paragraph 3, which of the following is true?
 - (A) The cars’ tools include only cameras.
 - (B) The AI creates a virtual image of things that surround the car.
 - (C) Only the more advanced type of driverless car is powered by AI.
 - (D) A lidar is a combination of maps and sensors.
- (3) According to paragraph 4, which of the following is true?
 - (A) More parking lots should be built in cities.
 - (B) Everything about self-driving cars results in positive effects.
 - (C) Self-driving cars cause an increase in air pollution and road congestion.
 - (D) Using self-driving cars can decrease the number of traffic accidents.

- (4) According to paragraphs 5 and 6, which of the following is true?
- (A) The self-driving car business will add no more than seven billion dollars to the global economy.
 - (B) If trucking companies convert to driverless vehicles, many employees will be out of a job.
 - (C) The AI in the car can prevent hackers from taking control of the driverless cars.
 - (D) Driverless cars will be able to use the same roads as other cars.

Ⅱ 次の各文の空所に入る最も適切なものを、(A)～(D)の中から一つ選びなさい。(26点)

1. We have to do the homework by tomorrow _____ we like it or not.
(A) whether (B) which (C) how (D) because
2. David complains of _____ very proud.
(A) my being (B) being me (C) mine (D) I being
3. Due to the computer virus, we are faced with a very _____ problem.
(A) confusion (B) confusing (C) confused (D) confuse
4. Wearing an expensive suit, he looked like a _____ businessman when I first met him twenty years ago.
(A) profound (B) proactive (C) prosperous (D) proclaimed
5. Many farmers had difficulties _____ planting and harvesting because of a shortage of seasonal labor.
(A) at (B) on (C) in (D) for
6. I will explain the information in _____ once the government makes their final decision.
(A) detail (B) danger (C) particular (D) place
7. _____ I leave the house, I take a reusable shopping bag with me.
(A) However (B) Whenever (C) Whatever (D) Whoever
8. It was _____ not being able to remember his name when we met in the elevator.
(A) boring (B) comforting
(C) exciting (D) embarrassing

9. I _____ going to that music festival in Tokyo next year.
(A) enjoy (B) dream (C) look forward to (D) had fun
10. We were _____ the terrible news that affected so many people around the globe.
(A) surprised to (B) surprised in (C) surprised (D) surprised at
11. The company decided to _____ their new product in the newspaper.
(A) advertise (B) maintain (C) observe (D) destroy
12. Okinawa is a popular tourist _____ throughout the year.
(A) donation (B) destination (C) population (D) pollution
13. The factory finally decided to _____ the old facility.
(A) add (B) build (C) knock (D) replace

Ⅲ 次の日本語の意味を表すように、下記の語句を空所に入れて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。ただし、文頭に置かれる語句もすべて小文字で表記されています。(15点)

1. ロシアは10以上の国々と隣り合っています。

Russia (1)() () (2)() () (3).

- (A) with (B) countries (C) more (D) borders
(E) than (F) ten (G) shares

2. その新しいホラー映画は今週末に公開されますか。

(4) the new horror movie be () () (5) () (6)
()?

- (A) the (B) will (C) of (D) at
(E) released (F) this week (G) end

3. 私の好きなバンドのコンサートは来週火曜日に大阪で開かれる予定です。

The concert that features () (7) band () (8) () ()
(9) in Osaka.

- (A) will (B) take (C) favorite (D) place
(E) next (F) my (G) Tuesday

4. 彼はもっと先生の言うことに注意を払えばよかったと思いました。

He () () (10) (11) () () (12) what his teacher had
said.

- (A) paid (B) attention (C) to (D) had
(E) he (F) more (G) wished

5. この演劇ワークショップでは、学生たちは英語を話すだけでなく演じることも求められます。

In this drama workshop, students () (13) () perform as (14)
() (15) () English.

- (A) speak (B) to (C) required (D) as
(E) are (F) in (G) well

IV 会話を読み、問いに答えなさい。(12点)

問1 次の会話の空所に入る最も適切なものを、(A)~(D)の中から一つ選びなさい。

1. Mike: I'd like to visit Mt. Cook during my holidays. I want to look at the stars in a clear sky.

Gayle: _____

Mike: What's that?

Gayle: It's a guided tour where you can walk the mountain trails at night.

- (A) Yes, I want to be a star.
- (B) Why don't you join a stargazing tour?
- (C) I can be your guide.
- (D) Did you know that you can see a lot of stars from that mountain?

2. Gavin: What's a smartwatch?

Caitlin: It's a computer shaped like a wristwatch.

Gavin: _____

Caitlin: Sure. You can even check your emails and chat messages.

- (A) How much does it cost?
- (B) What does it look like?
- (C) What kind of colors are available?
- (D) Can I get phone calls on it?

問2 次の会話を読み、設問の答えとして最も適切なものを(A)~(D)の中から一つ選びなさい。

1. Takeshi: Have you been to the new café at the station?

Makiko: No, I haven't. Have you?

Takeshi: Not yet. How about going there together?

Makiko: I'm sorry but I've heard that they only have coffee, and I'm not a coffee drinker.

According to the conversation, which of the following is true?

- (A) Takeshi hasn't been to the new café but Makiko has.
- (B) Takeshi and Makiko decide to go to the café together.
- (C) Makiko does not want to go to the café.
- (D) Neither of these two people drinks coffee.

2. Yuriko: I'm having some trouble installing your software, Phrase Master, on my computer.

Agent: I see. What version of the operating system are you using?

Yuriko: I'm using version 7.5. I haven't updated it in a while.

Agent: OK. That's the problem. Phrase Master only works on computers running version 9 or higher.

According to the conversation, which of the following is true?

- (A) Yuriko's operating system is too old to run the software.
- (B) The company will send Yuriko version 9 of Phrase Master.
- (C) Version 7.5 is the latest version of the operating system for Yuriko's computer.
- (D) The agent tells Yuriko to buy a new computer that can handle the software.



資料を読み、問いに答えなさい。(15点)

問1 次の広告を参照し、設問の答えとして最も適切なものを、(A)～(D)の中から一つ選びなさい。

Maple's Casual Footwear

Grand Opening Sale

Maple's Casual Footwear will open at 10 AM on June 15. Visit us for a great range of casual footwear from leading shoe brands from around the world. We have sneakers, flats, loafers, sandals, and many more for all ages.

For the grand opening sale, buy one pair of sneakers, and you will get the second pair for 40% off! This offer will last until the end of the month. There are other great deals in store, so don't miss this opportunity!

(SUE 2020)

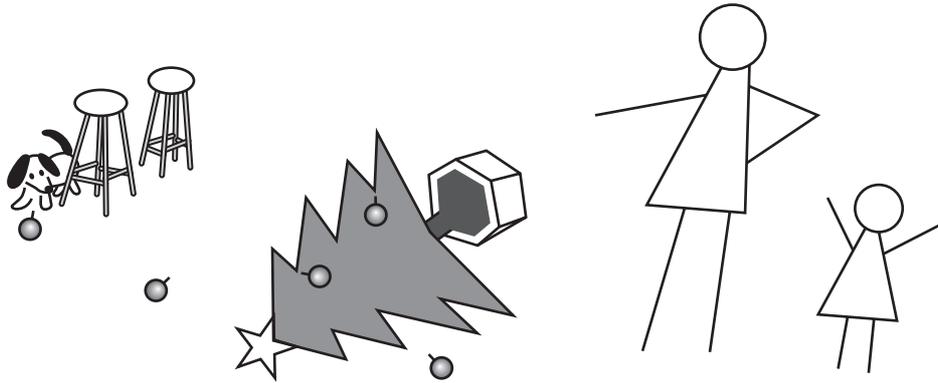
1. What is true about Maple's Casual Footwear?

- (A) The store has several job openings for sales staff.
- (B) The store will close again in two weeks.
- (C) The store only sells casual shoes made in the city.
- (D) The store has a special discount for sneakers until June 30.

2. Which of the following is true?

- (A) You don't have to pay a full price for any pair of sneakers you buy at the store.
- (B) You can go to the shop on June 10 to get great offers before the official opening.
- (C) You will be able to learn about discounts and other benefits if you visit the store.
- (D) Only local residents can shop at the store.

問2 次のイラストと会話を参照し、空所に入る最も適切なものを、(A)~(D)の中から一つ選びなさい。



Father: Good morning. I'm sorry but I need to ask something.

Tommy: Before you ask me, no, I didn't do that. It was upright when I left.

Father: Where did you go after dinner last night?

Tommy: I went to bed. You know that, Dad.

(SUE2020)

1. Father is _____.
 - (A) trying to figure out who has made the mess
 - (B) destroying the things in the room
 - (C) planting a tree in a pot with the boy
 - (D) cleaning the room with Tommy's help

2. Tommy is _____.
 - (A) accusing his mother
 - (B) defending himself
 - (C) decorating the tree
 - (D) hiding behind the sofa

3. The two speakers _____.

- (A) have not agreed yet
- (B) are negotiating the punishment
- (C) have chased the animal
- (D) are exchanging presents