

英

1 次の英文を読み、設問に答えよ。

著作権の都合上、省略。

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問1 Choose the best answer based on the reading.

1. What is Fanuc's most significant contribution to manufacturing?
 - A. It uses the shadow of Mount Fuji to save energy.
 - B. Its robots do not require much energy to manufacture goods.
 - C. It produces robots which can be used to protect the environment.
 - D. Its machines regulate lights and air conditioning independently.

2. Why can robots be more effective than human workers?
 - A. They know when they need to be fixed.
 - B. They can help improve human workers' health.
 - C. They can request changes in the manufacturing process.
 - D. They can train human workers to place an order.

3. How will the increase of automation affect human work?
 - A. People will work together with robots at more jobs.
 - B. People are likely to replace robots in the manufacturing process.
 - C. People will become more effective at dealing with change.
 - D. People will be better at ensuring production quality.

4. Cobots are different from traditional robots in that they . . .
 - A. are designed for large-scale automated production lines.
 - B. can interact with and help humans.
 - C. are programmed to do one particular task.
 - D. can concentrate on more complex tasks.

5. What surprising result came from the *Harvard Business Review* study?
 - A. Office workers often do the same tasks every day.
 - B. Use of RPA will damage the economy in the long run.
 - C. Use of RPA does not reduce the number of human jobs.
 - D. More companies are now using RPA than previously thought.

6. In the *Harvard Business Review* study, how did workers react to the introduction of RPA?
 - A. They saw office robots as regular, almost human co-workers.
 - B. Some of them felt threatened by robots doing more challenging work.
 - C. They wanted robots to take on more challenging and meaningful work.
 - D. They wished robots had more human characteristics.

7. What is true about Intelligent Process Automation (IPA)?
 - A. It is a technological development that came before RPA.
 - B. It will interact with both human and robotic workers.
 - C. It will generate multiple office jobs in the future.
 - D. It is an invention that will soon be available on the market.

8. What did the report by Accenture Tech Vision reveal about AI?
 - A. AI is better at coordinating tasks than humans.
 - B. Business people continue to see AI mainly as a tool.
 - C. Most business leaders support the use of AI.
 - D. AI makes business practices more sophisticated.

9. Why will AI systems need to “go to school” in the future?
 - A. They will have to be considered citizens.
 - B. They will have to learn the same social rules as humans.
 - C. They will have to teach their businesses about transparency.
 - D. They will have to do what their parents want.

10. What would be a good title for this passage?
 - A. Improving Work through Artificial Intelligence
 - B. Naming Your Robotic Co-worker for Better Use
 - C. Human Workers Becoming More Like Robots
 - D. Robots Learning Important Professional Values

問2 Complete the following charts.

Institutions	Their Conclusions
International Federation of Robotics (IFR)	(11)
McKinsey Global Institute (MGI)	(12)

11. A. Machine learning and data prediction are crucial to most organizations.
 B. Industrial manufacturing requires social and economic changes.
 C. The acceptance of industrial robots has dramatically increased.
 D. The number of jobs has increased thanks to robotics and automation.
12. A. Robots will not replace all manufacturing employees.
 B. Robots will significantly reduce the number of human jobs.
 C. Five percent of robots will engage in work-related activities in the future.
 D. All service industry occupations will be automated in the future.

Technology	Main Feature
Robotic Process Automation (RPA)	It (13)
Intelligent Process Automation (IPA)	It (14)

13. A. frees employees from boring repetitive tasks.
 B. maintains and protects office workers' rights and profits.
 C. has a negative influence on computer performance.
 D. has been studied by *Harvard Business Review*.
14. A. is restricted to manual tasks to increase efficiency.
 B. has problem-solving capabilities independent of humans.
 C. can be found in all household items, furniture, and industrial products.
 D. is available in virtual communities where Alexa and Siri can be found.

問3 Mark A for TRUE and B for FALSE for each of the following statements.

15. A growing number of IT companies have started to use Henry in their office.
16. Alexa and Siri are examples of Intelligent Process Automation.
17. Cobots are expensive because they can do a variety of tasks.
18. AI robots must act as responsible members of the business world.

2

次の 19～26 の空所に入れる語句として最も適切なものを A～D の中から選べ。

19. X: What did you do while you were waiting in the airport?
Y: I went window shopping to () myself.
A. amuse B. excuse C. infuse D. pause
20. X: What a knockout! The boxer fell to the floor straightaway.
Y: He needed a few minutes to () his balance and stand up again.
A. repeat B. regain C. perform D. persist
21. X: Where can I get this medicine for my skin problems?
Y: You can get it at a regular pharmacy. But you'll need a ().
A. reception B. transcription C. prescription D. perception
22. X: So, you lost your purse during your stay in Tokyo.
Y: Yeah, I was so () that I borrowed some money from a stranger.
A. adequate B. delicate C. desperate D. moderate
23. X: I heard yesterday's concert ended after 30 minutes. What happened?
Y: The band ended the show () when people started climbing on the stage.
A. abruptly B. directly C. incorrectly D. frequently
24. X: I'm thinking about buying a new tablet PC.
Y: Well, you should resist the () to buy anything until you're sure you need it.
A. adaptation B. habitation C. limitation D. temptation
25. X: I am not sure if I believe his story. Too many things don't make sense.
Y: I feel differently. I think his account of the events is ().
A. impossible B. incredible C. plausible D. reversible
26. X: Didn't your father oppose your idea of changing your major from engineering to law?
Y: I thought he would, but his response was () positive from the beginning.
A. unfortunately B. unexpectedly
C. unsurprisingly D. unwillingly

次の 27 ~ 36 の空所に入れる語句として最も適切なものを A ~ D の中から選べ。

27. X: We've got a new coffee machine. Would you like to try it?
Y: Actually, can I have some tea, please? I () coffee at this time of the day.
A. don't usually drink B. don't usual drink
C. don't drink usually D. don't drink usual
28. X: I texted you last night, but you didn't respond.
Y: Sorry. I was really tired, so I went to bed () usual.
A. earlier than B. earlier
C. more earlier than D. as early as
29. X: Paul broke his leg while riding a skateboard blindfolded.
Y: I can't imagine anybody () such a stupid thing!
A. to do B. do C. doing D. to doing
30. X: Do you think I'll need an umbrella today?
Y: Yeah, I see some clouds coming in over there. It () rain in the afternoon.
A. can B. might C. shall D. must
31. X: Is this book by a famous Japanese author?
Y: No, originally it () in German. This is a translation.
A. is written B. written C. has written D. was written
32. X: The snow was heavy yesterday. Were many students late for class?
Y: Not really. () people came on time, so I was surprised.
A. A few B. Few C. Most D. Almost
33. X: Oh, Lisa isn't on this train. Did anybody hear from her?
Y: She called and said the train () just before she arrived at the station.
A. leaves B. has been leaving
C. has left D. had left
34. X: What's the matter?
Y: Please turn down the volume. () to study for the exam.
A. I try B. I'm trying C. I've tried D. I tried
35. Tomorrow's party is open to anyone, so by all (), please come.
A. means B. costs C. plans D. standards
36. It was nice meeting you today. Let's () touch!
A. keep out B. keep in C. put out D. put in

4 それぞれの会話の空所に入れる最も適切な選択肢を A ～ D の中から選べ。ただし、同じ選択肢が2箇所に入ることはない。

Man: Hi, Mai. I'm just calling to see if you're OK. You weren't in Japanese Literature class this morning. You never skip that class.

Woman: Thank you for calling, Hiroki. I'm OK. I just went to see a doctor.

Man: (37) Do you have a cold or something?

Woman: I've had a slight stomachache since last weekend. My doctor gave me medicine to take for a week. So, that should help.

Man: Good. (38) I have some handouts from Professor Suzuki. We're supposed to read them before the next class. Could I go to your apartment this evening to give them to you?

Woman: Thanks. I'd really appreciate that.

Man: (39)

- A. You're welcome.
- B. Go on, be my guest.
- C. What's wrong?
- D. Oh, I almost forgot.

Woman: Hey, time for video games. Would you like to join me?

Man: No way. I gave them up three months ago.

Woman: Really? How did you manage to do that? (40)

Man: I know it's hard. I'd been playing almost all day every day for the last two years and it destroyed my school life. I realized if I kept playing games for more than eight hours a day, I wouldn't be able to graduate from university.

Woman: (41) No wonder you had to give it up.

Man: I still miss the games, to be honest. But I enjoy studying now.

Woman: (42)

- A. I didn't realize you played that much!
- B. I've tried to quit, but I can't.
- C. You spend way too much time playing games.
- D. Sounds like it was the right decision.

- 5 次の文章の空所に入れる文として最も適切なものを A ～ D の中から選べ。ただし、同じ文が2箇所に入ることはない。

What is the best way to fight climate change? A new study says: plant many trees—one trillion trees, maybe more. Thomas Crowther and other scientists at the Swiss Federal Institute of Technology say there is enough room for that many trees. In their report in the journal *Science*, they say even with existing cities and farmland, there is enough space for new trees to cover nine million square kilometers. (43) The study estimated that over a long period of time, the trees could take in almost 750 billion tons of carbon dioxide from the atmosphere. (44) Much of the gain from planting trees will come quickly because trees remove more carbon from the air when they are younger, the researchers said. The place that has the best possibility for removing the most carbon is the tropics, the area close to the equator. (45) However, Crowther says it is by far—by thousands of times—the cheapest climate change solution.

- A. The six nations with the most trees are Russia, the United States, Canada, Australia, Brazil, and China.
- B. This massive area is roughly the size of the United States.
- C. Of course, planting trees is not a substitute for reducing the world's dependence on oil, coal, and natural gas.
- D. That is about as much carbon as humans have put into the atmosphere in the past 25 years.

6 *Read the following information and answer the questions.*
 (1部および工学部受験者のみ)

Stay in the Heart of Barcelona—Excellent Location

Barcelona Hotel is located in Barcelona’s fashionable downtown. It is within a 5-minute walk to Sagrada Familia, an unfinished Roman Catholic church designed by Antoni Gaudí. The hotel features a spa, a rooftop pool, an indoor pool, a fitness center, wonderful city views, and 24-hour room service.

—House Rules—

Check-in: 3:00 PM

Check-out: 12:00 PM

Cancellation Policy: Free cancellation up to three days before arrival.

No prepayment needed—pay at the property.

Barcelona Hotel takes special requests—send your request by email.

—Early check-in available for an additional charge.

—Beds for young children are available.

—Pets are allowed at no extra charge.

—All rooms are non-smoking.

—Guest Reviews—

<p>“The staff, the service, the location. From the minute of my arrival until departure, the experience was superb.”</p> <p style="text-align: right;">Yoni, Israel</p>
<p>“The property is very clean and always smells great. The service staff was very friendly, but the food was not the best. Every day we ordered breakfast, but the eggs were always burnt and the coffee was cold. But the front desk staff kindly discounted our breakfast by 20%.”</p> <p style="text-align: right;">Amal, Lebanon</p>
<p>“The first room shown was much too small. The second room was acceptable. The location was good for shopping. The staff was very friendly and accommodating. The breakfast was good.”</p> <p style="text-align: right;">Sabina, France</p>
<p>“Most baby-friendly hotel ever! We traveled with our 15-month-old daughter and the level of attention we received was the best. They added baby amenities in the bathroom. Also, our daughter loved the teddy bear waiting for her on the bed. There’s a play area for kids in the restaurant, and our girl loved it. For the adults, there’s plenty, too! Great hotel, great staff. We’ll be back.”</p> <p style="text-align: right;">Gemma, U.K.</p>

46. What is this information mainly about?
- A. Transportation.
 - B. Sightseeing.
 - C. Accommodations.
 - D. Restaurants.
47. What is the main feature of this hotel?
- A. It is within a 5-minute walk to a spa.
 - B. It is close to a famous sightseeing spot.
 - C. It was built in an unfinished Roman Catholic church.
 - D. It was designed by a famous Spanish architect.
48. What is provided by this hotel?
- A. Free early check-in.
 - B. Extra charges.
 - C. A fitness center.
 - D. Smoking rooms.
49. If you don't want to pay cancellation fees, when should you contact the hotel?
- A. At least three days before the check-in date.
 - B. Before 3 pm of the check-in date.
 - C. 24 hours before the check-in date.
 - D. No cancellation fees are needed.
50. What do all the reviewers find good about this hotel?
- A. The location.
 - B. Its cleanliness.
 - C. The restaurant.
 - D. The staff.
51. What did Amal complain about?
- A. The service staff.
 - B. The front desk staff.
 - C. The food.
 - D. The discount.

52. What made Gemma's daughter happy?

- A. A baby bed.
- B. The indoor pool.
- C. A stuffed animal.
- D. Baby amenities.