

2025年度 奨学生入学試験

英 語

(試験時間 60 分)

注 意 事 項

- 1 試験開始の合図があるまで、この問題冊子の中を見てはいけません。
- 2 この問題冊子は、29ページあります。
- 3 試験中に問題冊子の印刷不鮮明、ページの落丁・乱丁及び解答用紙の汚れ等に気付いた場合は、手を挙げて監督者に知らせなさい。
- 4 解答用紙には解答欄以外に次の記入欄があるので、それぞれ正しく記入し、マークしなさい。

① 試験コード欄・座席番号欄

試験コード・座席番号(数字)を記入し、さらにその下のマーク欄にマークしなさい。正しくマークされていない場合は、採点できないことがあります。

② 氏名欄

氏名・フリガナを記入しなさい。

- 5 解答は、解答用紙の解答欄にマークしなさい。例えば、

10

と表示のある問いに対して③と解答する場合は、次の(例)のように解答番号10の解答欄の③にマークしなさい。

(例)

解答 番号	解 答 欄									
10	①	②	●	④	⑤	⑥	⑦	⑧	⑨	⑩

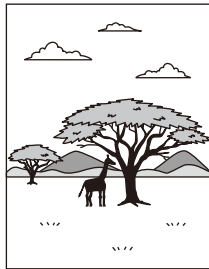

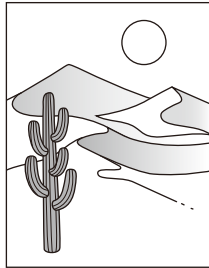
- 6 問題冊子の余白等は適宜利用してよいが、どのページも切り離してはいけません。
- 7 試験終了後、問題冊子は持ち帰りなさい。

英 語

各大問の英文や図表を読み，解答番号 1 ～ 37 にあてはまるものとして最も適当な選択肢を選びなさい。

第 1 問

A You are looking at the chart below in your biology textbook to learn about plants and animals in a variety of environments.

Natural Regions of the World (extract)	
<p>Tropical Grasslands</p> <ul style="list-style-type: none">• Average Annual Rainfall: 10 - 30 inches• Average Daytime Temperature: 80°F (all year) <p>There are two separate seasons in tropical grasslands: the wet season and the dry season. The annual rainfall is not enough to produce forests but is enough to grow grasses. The thick grasses provide food to savanna animals such as zebras and giraffes, which are hunted by lions, leopards, and other predators.</p>	
<p>Cool Forests</p> <ul style="list-style-type: none">• Average Annual Rainfall: 20 - 30 inches• Average Daytime Temperature: 65°F (summer), 20°F (winter) <p>Cool forests are located near the polar regions. Under cool and dry conditions, pine trees grow tall and supply shelter to wild animals, including rabbits, deer, and bears. The animals are active in the mild summer but hide in their shelters most of the time in the long, dark, and freezing winter.</p>	
<p>Deserts</p> <ul style="list-style-type: none">• Average Annual Rainfall: under 10 inches• Average Daytime Temperature: 100°F (summer), 65°F (winter) <p>Plant and animal life is scarce but well-adapted to the harsh environment. Cacti, which can store water inside their stems, are typical desert plants. Lizards, snakes, and some other small animals thrive in the hot desert. Many of these animals hide deep underground during the day and become active above ground at night.</p>	

問 1 In all three natural regions shown above,

1

 .

- ① the average annual rainfall is 30 inches or less
- ② the average annual rainfall is more than 40 inches
- ③ the average daytime temperature is below 30°F in winter
- ④ the average daytime temperature is higher than 90°F in summer

問 2 From the chart, you learn that

2

 .

- ① each natural region has its own unique climate and wildlife
- ② the Arctic polar region is a solid mass of frozen ocean water
- ③ the Earth can be divided into ten different natural regions
- ④ tropical rain forests are located near or at the equator

B While you are searching for new shoes, you happen to click on a link to the advertisement shown below, which attracts your attention.

Lightweight Pull-On Suede Boots

Add a pair of classic ankle-high boots to your wardrobe. **Lightweight Pull-On Suede Boots** are traditionally rugged footwear for modern city use. The soft suede upper and the flexible rubber sole ensure mobility and comfort. The optional items listed below are strongly recommended for easy and effective shoe care.

Item #	Product Name	Price
56160	Lightweight Pull-On Suede Boots	\$175/pair

Click [here](#) to see the full list of sizes and colors.

Option A: Suede shoe brush	\$15
Option B: Suede shoe cleaner	\$10

These boots:

- Feature flexible side panels and a pull tab on the back. Easy to put on and take off.
- Go well with a white T-shirt and jeans, an Oxford shirt and chinos, or any other combination of smart and casual items.

Customer Review

These are really nice boots — they fit perfectly and feel comfortable. There are a few things I always do to keep my favorite boots in good condition. First, I make sure to avoid wearing them in the rain because the suede upper absorbs water when it gets wet and water stains remain on the surface. Also, I brush the suede surface a few times a week to keep it clean and smooth. If it gets stained, a suede cleaner helps me remove all types of stains. I believe I made a good decision in ordering the two options along with the boots.

(Dwayne)

問 1 You like the boots shown above and will buy a pair for yourself. You'll also order both Option A and Option B to follow the recommendation. How much will you pay in total?

- ① \$175
- ② \$185
- ③ \$190
- ④ \$200

問 2 Based on the advertisement, which of the following is true about this product?

- ① The boots are available in three different colors and ten different sizes.
- ② The boots are made of soft materials and are not suitable for rugged use.
- ③ You can put on and take off the boots with ease due to their special features.
- ④ You are encouraged to wear the boots when you're dressed in a business suit.

問 3 According to the Customer Review, Dwayne .

- ① takes good care of his boots so they will last a long time
- ② thinks he shouldn't have bought the two options
- ③ wears black leather shoes when he goes to work
- ④ wears the boots regardless of the weather conditions

第2問

A You and your sister are reading an announcement shown below in your room. You are thinking about attending the Workshop.

Become a certified nail artist. No past experience required.

3-Day Nail Art Workshop

March 13 (Thu) - March 15 (Sat), 2025

Venue: ABC Beauty Academy (123 Hillside St., Highland City)

Course fee: \$250

Student discount available (Click here for more details.)

Sign up by 6 pm, March 10 (Mon), 2025

WHAT'S INCLUDED

- Nail starter kit
- Lunch and snacks
- Certificate of completion

WHAT YOU'LL LEARN

- Table set-up
 - Gel polish application
 - Temporary nail extension
 - Glitter effect
 - Removals
- and other basic techniques

From the chief instructor:

ABC Beauty Academy offers quality training courses for future nail professionals and accepts individuals of every skill level. At this year's 3-day Nail Art Workshop, our qualified instructors will help each of you improve your skill and achieve your goal. We all look forward to meeting you on March 13. (Clara Harrington, ABC Beauty Academy)

From a past participant:

I found the 3-day workshop very informative and useful. As a complete beginner with no past experience, I was a little nervous and needed some extra help from the instructors. They were all kind to me and guided me through basic techniques one by one. I highly recommend this workshop to anyone who wants to become a professional nail technician someday.

(Nelly Morgan)

問 1 Which is the best combination that describes the Workshop?

6

A : The Workshop accepts those who are 18 years old or older.

B : The Workshop begins on March 10 and ends on March 13.

C : The Workshop is designed to teach basic techniques of nail art.

D : The Workshop is organized by ABC Beauty Academy.

E : The Workshop offers coffee and donuts for lunch for three days.

① A and B

② B and C

③ B and D

④ C and D

⑤ D and E

問 2 According to the announcement, the Workshop is most likely suitable for those who 7 .

① have recently moved to Highland City

② have worked at a nail salon before

③ plan to build a career as a nail artist

④ want to show off their decorated nails

問 3 Judging from the announcement, you can 8 .

- ① receive a certificate upon completion of the Workshop
- ② park your bicycle near the venue when you attend the Workshop
- ③ receive a special discount if you sign up for the Workshop early
- ④ take some or all of the classes online during the Workshop

問 4 One fact stated by Nelly Morgan is that 9 .

- ① she brought her starter kit back home and gave it to her sister
- ② she practiced nail art with some help from the instructors
- ③ the 3-day workshop was very informative and useful
- ④ the total amount of the course fee that she paid was \$200

問 5 One characteristic of the Workshop that both Clara Harrington and Nelly Morgan mention is 10 .

- ① the fast-paced coursework during the intensive workshop
- ② the many opportunities to socialize with other participants
- ③ the personal assistance the instructors provide to each participant
- ④ the right balance between lectures and practice sessions

(下 書 き 用 紙)

英語の試験問題は次に続く。

B You are reading the following article written by Miguel, one of your online friends from Spain.

15

In a recent survey, more than 10,000 people who travel internationally on a regular basis were asked what part of travel planning they would like to be done by artificial intelligence (AI) in the near future. 75 percent of those surveyed want AI to handle “hotel booking.” This is followed by “transport arrangement” and “passport renewal,” chosen by 74 percent and 73 percent of the respondents respectively.

As predicted in the survey, a growing number of people have already adopted “AI travel planners,” which have some obvious advantages, including the following:

- **AI makes the process of travel planning simple, quick, and easy:**

AI trip-planning tools can create a detailed itinerary* almost instantly after analyzing the data you have provided. You don’t need to visit a travel agency to gather information or research extensively on the web anymore.

- **AI offers personalized recommendations and creates customized itineraries:**

In case you haven’t decided where to go and what to do during a vacation, AI planners can recommend a shortlist of destinations and activities that suit your preferences and design a trip specifically for you.

On the other hand, there are some issues regarding AI travel planners that you should be aware of. First, there is a risk of privacy violation because the personal information you share with an AI model – your address, age, family members, and so on – may be abused by an unauthorized party. Second, AI’s recommendations may not be as valuable as the advice given by real people, such as those who have actually been to the places you plan to visit. Thus, you should complement an AI-generated itinerary with human insights to finalize your plan. Additionally, AI systems sometimes provide false information as if it were true, especially when the datasets they are trained on are outdated or biased.

As a first step of trip planning, I always use AI tools. However, I never fix every single detail of a trip before departure. I can be better informed about a destination after I arrive there and talk to the people who live there. Then, I often change my original schedule to visit some hidden places away from typical sightseeing routes. For example, I’ve seen many such places in Japan which are not well-known among foreign tourists but worth seeing.

*itinerary : 旅程

問 1 According to the first paragraph, which of the following shows the ranking of the three tasks from highest to lowest? 11

- ① hotel booking — passport renewal — transport arrangement
- ② hotel booking — transport arrangement — passport renewal
- ③ passport renewal — hotel booking — transport arrangement
- ④ passport renewal — transport arrangement — hotel booking
- ⑤ transport arrangement — hotel booking — passport renewal
- ⑥ transport arrangement — passport renewal — hotel booking

問 2 Which of the following statements best reflects one of the advantages of AI travel planners listed in the second paragraph? 12

- ① ‘AI systems can summarize travelers’ reviews posted on social media.’
- ② ‘I can chat with travel agents and ask them questions on a mobile app.’
- ③ ‘It’s easy to collaborate with your travel partners to plan a group trip.’
- ④ ‘You would be amazed to see how much time and energy you can save.’

問 3 Which of the following is not mentioned as an issue regarding AI travel planners that you should be aware of? 13

- ① Extra fees charged after a trial period
- ② Incorrect information provided by AI systems
- ③ The risk of privacy violation
- ④ The lack of human insights in AI’s output

問 4 Which of the following best summarizes Miguel's opinion expressed in the last paragraph?

14

- ① AI tools make it possible to overcome language barriers in foreign countries.
- ② First-time visitors to Japan should consider joining package tours.
- ③ The more detailed an itinerary is, the better prepared I can be.
- ④ What's important is to be flexible so I can enrich my travel experiences.

問 5 Which of the following is the most suitable title for the article?

15

- ① AI Travel Planners—Beneficial Tools That Still Have Room for Improvement
- ② Generative AI Models—A Practical Solution to Labor Shortages in the Hotel Industry
- ③ How AI's Personalized Recommendations Influence Customers' Shopping Patterns
- ④ Popular Destinations in Japan Selected by Tourists From Asia and Europe

(下 書 き 用 紙)

英語の試験問題は次に続く。

第 3 問

Carlos, a student living in Mexico, is writing a blog post about time he spent with his homestay brother Tom, from Canada. His current post is about their day out at a salsa recipe competition.

Hi!

Last Sunday, a salsa recipe contest was held at a farmers' market in San Luis Park, sponsored by our city and several food companies. Contestants included restaurant chefs, cooking school students, and housewives who have been making salsa for years using family recipes. The top 8 recipes were chosen, and these were served to the judges and visitors. The judges sampled the salsas and voted for the one they liked best. The top 3 winning salsas were determined based on the votes.

The tradition of making salsa runs deep in my family and, fortunately,

Tom would have a chance to experience it because the salsa-making contest was taking place while he was staying with us. At first, we planned to enter the contest as contestants and make the salsa according to our family recipe. However, there were many rules to follow, and a new rule was causing us trouble: we would have to reveal our recipe to the judges. Even though most salsas contain similar ingredients, my grandmother didn't want our family recipe to be widely shared. We tried to persuade her, but she refused. In the end, Tom and I had to make our salsa just for ourselves.

Though we had to give up the idea of entering the contest, we were still able to attend as guests and try the winning salsa. It actually used roasted chillies instead of the fresh ones my family uses. Many of the salsas were made from ingredients commonly used in traditional salsas: tomatoes, onions, peppers, garlic, lime, and fresh jalapeños. Some participants added olive oil or oregano

Salsa Competition Rules

- Prepare at least 500ml of your freshest salsa
- Salsa must be homemade and prepared beforehand
- No submissions which require refrigeration
- Use a disposable container to transport your salsa
- 16

(for food sensitivity and allergies)
- Label how hot your salsa is on our 5 chili scale
- Provide a recipe to the judges
(will be treated with confidentiality)
- Salsa will be judged on appearance, taste and texture

to their salsas to make them more flavorful, while others used avocado. The winning salsa was a 5 out of 5 on the chili scale, and you could definitely tell! My mouth was on fire!

I was a little disappointed not to enter the contest. After Tom tried his first mouthful of our family salsa, he even said that he was sure it would have won. However, we still had a great day. So, in a sense, we won our own solo contest.

問 1 Which is the rule that prevented Carlos and Tom from entering the contest? Choose the best option for

16

.

- ① Disclose your ingredients
- ② Do not overuse onions and garlic
- ③ Heat all ingredients thoroughly
- ④ Never use eggs, milk, or wheat

問 2 Tom is going to leave a comment on Carlos' blog. Which would be most appropriate as his comment to Carlos?

17

- ① "I found your family recipe online, and it was delicious!"
- ② "I was amazed that your salsa making skills were enough to win first place!"
- ③ "We didn't take part in the contest, but we had a great time making salsa for ourselves!"
- ④ "After eating the winning salsa, I had a stomach ache. The refrigeration unit that stored it must have been broken!"

第 4 問

You are reading an article in the school newspaper written by Miki, who studied in the US for six years.

The Rule of Adjective Order

Kawanaka Miki

There are unspoken rules in the English language that are rarely taught in schools but are followed by native speakers. One of these is the rule of adjective order. Simply put, this is the order of descriptive words used before a noun. This might sound basic, but if you asked the average English speaker to explain the rule for the order of adjectives, not many would be able to do so. I'll discuss the reasons for this at another time, so let's first break down the rule itself.

Now, to be clear, it isn't recommended to string many adjectives together. However, if you are going to, this rule will help create a natural sounding sentence. In their correct order, the 8 categories of adjectives are:

Order	Type of Adjective
1	18
2	Size
3	19
4	Shape
5	Color
6	20
7	Material
8	21

Let's see if you can notice the difference between these sentences: "that beautiful, old, red, Italian sports car" and "that red, beautiful, Italian, old sports car." Maybe, at first glance, they are similar; they use the exact same adjectives, after all. However, to a native English speaker, the former sentence will sound natural while the latter will sound odd.

The difference comes down to the order: opinion (e.g., "beautiful"), age ("old"), color ("red"), origin ("Italian"), and purpose ("sports"). Deviating* from this sequence can lead to confusion or even alter the intended meaning of a sentence altogether.

For example, the sentence “this old French painting” emphasizes the age of the painting while “this French old painting” emphasizes its French origin. More importantly, the latter is usually regarded as incorrect.

So, if we change the order, we change the meaning, too. But, where did this order come from? Unfortunately, there isn’t a clear answer as to why adjectives are typically used in this order. Like many English grammatical rules, the reasoning behind them has been lost to time. Still, the rule persists, despite the fact that it is not taught in schools. Please remember adjective order because, as difficult as it may be to explain, it’s fundamental for clear and effective communication in English.

*deviate : 逸脱する

問 1 Put the following categories of adjectives (①～④) into the table in the correct order.

18

 ~

21

- ① Age
- ② Opinion
- ③ Origin
- ④ Purpose

問 2 What is one of the main reasons that native English speakers would struggle to explain this rule?

22

- ① The order is often changing with the times.
- ② The order is too complicated and hard to remember.
- ③ The rule isn’t important for our daily communication.
- ④ The rule isn’t taught in schools, and no one knows where it came from.

問 3 From this passage, you understand that

23

 .

- ① it's recommended to string numerous adjectives together within a sentence
- ② the closer an adjective is to a noun, the more emphasis is placed upon it
- ③ the order dictates the clarity, but not the emphasis, of a sentence
- ④ the rule about adjective order does not have a commonly agreed upon origin

(下 書 き 用 紙)

英語の試験問題は次に続く。

第5問

You have been asked to introduce a story to your classmates in English class. You have chosen the following one, and you are preparing notes for your presentation.

Alex stared at his school's famous mural*¹. He had been a quiet 16-year-old when he'd helped design it. Back then, he felt like he had no voice. A decade later, at 26, he'd returned to deliver a speech about his life since his high school days. Ironically, though he was a popular public speaker, he was beginning to feel his voice fail him again. Worst of all, he hadn't prepared his speech script for today. Looking at the mural, he realized it changed his life thanks to his unlikely friends: Jordan and Lila.



Alex's heart sank when his teacher said he'd be working with Jordan and Lila on a mural about the power of unity. Jordan was a year older and the star athlete in school. He'd only taken art because a recent ankle injury kept him from playing. "Hey, this should be fun!" Jordan said enthusiastically. Lila, the shy girl clutching her sketchbook, nodded. Alex didn't know how this was going to work.

However, as they started planning their mural and spent more time together, Alex was surprised at how quickly Lila's passion for art began to show. She even let go of her sketchbook, but she still doubted herself.

Lila said, "I'm not sure if anyone will like my work. It's just... personal."

Alex and Jordan couldn't believe what they were seeing. The use of color, the flowing abstract shapes.

"Your art is amazing, Lila! Don't you agree, Alex?"

"Totally. It deserves to be up on the wall for all to see!"

Jordan often spoke in a way that sounded overly dramatic, and under his influence, Alex sometimes spoke like him. Lila just smiled at them.



Suddenly, Alex felt a hand on his shoulder. It was Jordan! He pulled Alex into a tight embrace. Jordan worked as a PE teacher at the school and was also busy coaching sports for school clubs and community activities. Everyone except Alex and Lila had been surprised when he chose a career coaching young athletes, rather than competing himself.

Jordan grinned. "I heard you were giving a speech today and had to come."

"How long has it been? We've rarely seen each other since we graduated!"

"No time to reminisce*²; let's get you on stage. I heard there's a special guest in the front row."

Alex stepped onstage but still didn't know what to say. That was until he looked down and saw Lila's face in the front row, smiling at him. These days, he could barely pick up a magazine without seeing her art on display. 26 years old

with her own exhibit! Both of his old friends were here, united again after ten years! Suddenly, it occurred to him exactly what to say in his speech. It had to be about Jordan and Lila.

“...Our honesty created a bond that day. Jordan used his gift for motivation off the field, and his award-winning community work speaks for itself. He’s a great educator, coach, and source of hope for many athletes!” Jordan stood and took a comedic bow to the crowd.

“And Lila! She didn’t just learn to share her art with us. She shared it with the whole world!” Lila also stood up and shyly smiled.

“And me? Well, I never felt like I had a voice before meeting these two, yet now I tour schools as a motivational public speaker. None of this was possible without that old mural!”

Your presentation notes:

The Unlikely Trio

About the three friends

- Age: 24
- How did they each grow:
 - Jordan chose a career coaching young athletes.
 - Lila learned to 25 and became an artist.
 - Alex was able to change himself and became a public speaker.

Influential events in their journey

The art teacher assigns Alex, Lila and Jordan the task of creating a mural.

- 26
- 27
- 28
- 29
- Alex finds his voice again and gives a speech about Jordan and Lila.

Interpretations of key moments

- When they were assigned as a team, 30 .
- Alex felt like he was losing his voice before his speech, 31 .

* 1 mural : 壁画

* 2 reminisce : 回想する, 思い出を語る

問 1 Choose the best option for

24

 .

- ① Alex and Jordan are 26, Lila is 27
- ② Alex, Lila, and Jordan are 26
- ③ Lila and Alex are 26, Jordan is 27
- ④ Lila and Alex are 27, Jordan is 26

問 2 Choose the best option for

25

 .

- ① ignore the pressure from others to always succeed
- ② overcome the fear of sharing with others
- ③ put the final strokes on the group mural
- ④ tell a story about the importance of unity
- ⑤ find her lost voice

問 3 Choose **four** out of the five options (①～⑤) and rearrange them in the order they happened.

26

 →

27

 →

28

 →

29

- ① Alex revisits his old school and finds the mural he helped make on the wall.
- ② Jordan injures his ankle in the middle of a game.
- ③ Lila opened up to Jordan and Alex and shares her sketchbook.
- ④ The group finishes their mural for display in the school.
- ⑤ They finished school and began working in professions that made use of their talents.

問 4 Choose the best option for

30

 .

- ① they didn't all feel comfortable around each other
- ② they immediately shared their problems with each other
- ③ they studied the compositions of murals
- ④ they were all enthusiastic about the mural project

問 5 Choose the best option for

31

 .

- ① but regained confidence in the presence of his friends
- ② so he had Jordan help him prepare his speech
- ③ then he looked at the old mural again
- ④ but Lila gave him words of encouragement

第6問

You and your classmates are preparing for a group presentation and making a poster based on the following article.

Hydrogen Fuel — A Potential Alternative to Fossil Fuels —

Hydrogen, a chemical element with the symbol H, is expected to play a vital role in global efforts to achieve net-zero CO₂ emissions by 2050 because some basic properties of hydrogen make it an ideal alternative to fossil fuels. First, hydrogen is a flammable gas which has a high energy content: when it's burnt with oxygen, hydrogen releases a massive amount of energy. Second, hydrogen (H₂) reacts with oxygen (O) to form only water (H₂O). As it doesn't emit CO₂ when burned, hydrogen could help a wide range of sectors reduce their CO₂ emissions. Due to the high potential to contribute to decarbonization, hydrogen is considered an important fuel for a sustainable future.

Hydrogen rarely exists in its pure form in nature and thus needs to be extracted from other compounds. Today, about 95% of hydrogen produced worldwide is derived from liquified natural gas (LNG) through a high-temperature process called steam reforming. This type of hydrogen is classified as "gray hydrogen" because it releases CO₂ in the process of production. In order for hydrogen to be a truly clean energy option, gray hydrogen needs to be replaced by "green hydrogen," which is produced from water through a process called electrolysis. This production method is CO₂-free when renewable energy is used to separate water (H₂O) into oxygen (O) and hydrogen (H₂). Currently, green hydrogen accounts for only about 5% of the total hydrogen output, but the percentage is expected to grow as the prices of renewable energy from solar or wind resources are falling steadily.

Today, hydrogen gas is transported from producers to consumers by road, by rail, or through pipelines. In the near future, large quantities of hydrogen will be stored in tanks on hydrogen-carrying ships and transported across the ocean. At -252.9°C, which is the boiling point of hydrogen, hydrogen gas turns liquid and is reduced to one eight-hundredth of its original volume. By applying advanced insulation technology, transport operators keep liquified hydrogen at extremely low temperatures throughout a long sea voyage.

The uses of hydrogen are diversifying mainly due to recent developments in fuel cell technology. Fuel cells generate electricity through the chemical reaction of hydrogen and oxygen. The most notable application of this technology is in

passenger vehicles called FCEVs*, which are known for their quick refilling, relatively long range, and zero CO₂ emissions. The same technology can be applied to commercial vehicles, such as trucks and buses, and possibly trains, boats, and aircrafts as well.

Despite these technological advancements at each stage of supply chains, hydrogen fuel is not widely adopted in any country and its high potential has not been fully realized yet. As is true with other means of achieving decarbonization, “economies of scale” would be the key to the widespread adoption of hydrogen fuel. With generous incentives offered by the government, more consumers would consider buying expensive hydrogen-powered vehicles, which would otherwise be out of their budget. If strong long-term demand for hydrogen fuel was created, fuel producers, transporters, and distributors would invest in new facilities to enhance capacity, which will lay the foundation for extended supply chains. When these companies achieve “economies of scale,” larger quantities of hydrogen fuel will be produced, transported, and distributed and their business operations will be more efficient and profitable. This will likely lead to reductions in the prices of hydrogen fuel, which will accelerate the transition from fossil fuels to clean energy and help achieve net-zero CO₂ emissions by 2050.

Your presentation poster draft:

● Basic properties of hydrogen

- 1) Hydrogen is a flammable gas which has a high energy content.
- 2) Hydrogen (H₂) reacts with oxygen (O) to form only water (H₂O).

● Technological advancements in hydrogen supply chains

Stage of Hydrogen Supply Chains	Technological Advancement
Production	Hydrogen produced from water with renewable energy
Transportation	33
Consumption	Fuel cell vehicles (passenger and commercial), trains, etc.

● Conclusion

34 so that larger quantities of hydrogen fuel will be produced, transported, and distributed.

*FCEV : 燃料電池電気自動車

問 1 According to the second paragraph, which of the following is true?

32

- ① Currently, green hydrogen accounts for only about 5% of the total hydrogen output because of water shortages.
- ② Hydrogen needs to be generated artificially because it's rarely found in isolation on Earth.
- ③ Steam reforming is more commonly used than electrolysis as a production method of green hydrogen.
- ④ Today, about 95% of hydrogen produced worldwide is derived from black or brown coal.

問 2 Choose the best option for 33 to complete the table.

33

- ① Frozen hydrogen transported by boat
- ② Gaseous hydrogen transported by air
- ③ Liquid hydrogen transported by sea
- ④ Solid hydrogen transported by road

問 3 Choose the best option for 34 .

34

- ① A skilled workforce should be introduced
- ② Car users should be better educated
- ③ Energy-saving measures need to be taken
- ④ Infrastructure needs to be developed

問 4 From the last paragraph, you learn that companies achieve “economies of scale” when they 35 .

- ① allow their employees to work from home
- ② focus on their core business to maximize profits
- ③ increase their output to reduce costs per unit
- ④ use their resources for a wider range of purposes

問 5 According to the article, which two of the following are true? (The order does not matter.) 36 · 37

- ① A storage tank can contain 800 times more hydrogen in liquid form than in gaseous form.
- ② “Economies of scale” and “economies of scope” are equally important for companies.
- ③ Fuel cell technology can be applied to a variety of modes of transportation.
- ④ Hydrogen is used as rocket fuel because it’s the most abundant element in the universe.
- ⑤ Hydrogen poses a high risk of fire and explosion when used for power generation.