

**Part II**

**Listening Comprehension**

**(30 minutes)**

**Section A**

**Directions:** *In this section, you will hear two long conversations. At the end of each conversation, you will hear four questions. Both the conversation and the questions will be spoken only once. After you hear a question, you must choose the best answer from the four choices marked A), B), C) and D). Then mark the corresponding letter on **Answer Sheet 1** with a single line through the centre.*

**Questions 1 to 4 are based on the conversation you have just heard.**

1. A) Her house has not been repaired in time.  
B) She has failed to reach the manager again.  
C) Her claim has been completely disregarded.  
D) She has not received any letter from the man.
2. A) The ground floor of their cottage was flooded.  
B) Their caravan was washed away by the flood.  
C) Their entire house was destroyed by the flood.  
D) The roof of their cottage collapsed in the flood.
3. A) The woman's misreading of the insurance company's letter.  
B) The woman's ignorance of the insurance company's policy.  
C) The woman's inaccurate description of the whole incident.  
D) The woman's failure to pay her house insurance in time.
4. A) File a lawsuit against the insurance company.  
B) Talk to the manager of Safe House Insurance.  
C) Consult her lawyer about the insurance policy.  
D) Revise the terms and conditions of the contract.

**Questions 5 to 8 are based on the conversation you have just heard.**

5. A) They work in different fields of AI technology.  
B) They disagree about the future of AI technology.  
C) They differ greatly in their knowledge of modern technology.  
D) They are both worried about the negative impact of technology.

6. A) Simply writing AI software.  
 B) Stimulating and motivating.  
 C) Less time-consuming and focusing on creation.  
 D) More demanding and requiring special training.
7. A) There could be jobs nobody wants to do.  
 B) Digital life could replace human civilization.  
 C) Humans would be tired of communicating with one another.  
 D) Old people would be taken care of solely by unfeeling robots.
8. A) Life will become like a science fiction film.  
 B) It will take away humans' jobs altogether.  
 C) Chips will be inserted in human brains.  
 D) It will be smarter than human beings.

## Section B

**Directions:** *In this section, you will hear two passages. At the end of each passage, you will hear three or four questions. Both the passage and the questions will be spoken only once. After you hear a question, you must choose the best answer from the four choices marked A), B), C) and D). Then mark the corresponding letter on **Answer Sheet 1** with a single line through the centre.*

**Questions 9 to 11 are based on the passage you have just heard.**

9. A) Restrain themselves from high-risk investments.  
 B) Save one-fifth of their net monthly income.  
 C) Invest shrewdly in lucrative businesses.  
 D) Try to earn as much money as possible.
10. A) Start by doing something small.  
 B) Ask a close friend for advice.  
 C) Try to stick to their initial plan.  
 D) Cut 20% of their daily spending.
11. A) An optimistic attitude.  
 B) An ambitious plan.  
 C) A proper mindset.  
 D) A keen interest.

**Questions 12 to 15 are based on the passage you have just heard.**

12. A) She was uninterested in advertising.  
 B) She found her outfit inappropriate.  
 C) She was unhappy with fashion trends.  
 D) She often checked herself in a mirror.

13. A) To save the trouble of choosing a unique outfit every day.  
 B) To meet the expectations of fashion-conscious clients.  
 C) To keep up with the current trends.  
 D) To save the expenses on clothing.
14. A) It enhances people's ability to work independently.  
 B) It helps people succeed in whatever they are doing.  
 C) It matters a lot in jobs involving interaction with others.  
 D) It boosts one's confidence when looking for employment.
15. A) Design their own uniform to appear unique.  
 B) Wear classic pieces to impress their clients.  
 C) Fight the ever-changing trends in fashion.  
 D) Do whatever is possible to look smart.

## Section C

**Directions:** *In this section, you will hear three recordings of lectures or talks followed by three or four questions. The recordings will be played only once. After you hear a question, you must choose the best answer from the four choices marked A), B), C) and D). Then mark the corresponding letter on **Answer Sheet 1** with a single line through the centre.*

**Questions 16 to 18 are based on the recording you have just heard.**

- |  |  |
|--|--|
| 16. A) Their obsession with consumption. | C) The ever-increasing costs of housing. |
| B) Their failure to accumulate wealth.   | D) The deterioration of the environment. |
| 17. A) Things that are rare to find.     | C) Things that boost efficiency.         |
| B) Things that cost less money.          | D) Things that we cherish most.          |
| 18. A) They serve multiple purposes.     | C) They are mostly durable.              |
| B) They benefit the environment.         | D) They are easily disposable.           |

**Questions 19 to 21 are based on the recording you have just heard.**

19. A) All respondents were afraid of making a high expense claim.  
 B) A number of respondents gave an average answer of 400 miles.  
 C) Over 10% of the respondents lied about the distance they drove.  
 D) Most of the respondents got compensated for driving 384 miles.

20. A) They responded to colleagues' suspicion.  
 B) They cared about other people's claims.  
 C) They wanted to protect their reputation.  
 D) They endeavored to actually be honest.
21. A) They seem positive.  
 B) They seem intuitive.  
 C) They are illustrative.  
 D) They are conclusive.

**Questions 22 to 25 are based on the recording you have just heard.**

22. A) Deterioration in the quality of new music.  
 B) Insights into the features of good music.  
 C) Older people's changing musical tastes.  
 D) Older people's aversion to new music.
23. A) They no longer listen to new music.  
 B) They find all music sounds the same.  
 C) They can make subtle distinctions about music.  
 D) They seldom listen to songs released in their teens.
24. A) The more you are exposed to something, the more familiar it'll be to you.  
 B) The more you are exposed to something, the deeper you'll understand it.  
 C) The more you experience something, the longer you'll remember it.  
 D) The more you experience something, the better you'll appreciate it.
25. A) Teenagers' memories are more lasting.  
 B) Teenagers' emotions are more intense.  
 C) Teenagers are much more sensitive.  
 D) Teenagers are much more sentimental.

## Part III Reading Comprehension (40 minutes)

### Section A

**Directions:** *In this section, there is a passage with ten blanks. You are required to select one word for each blank from a list of choices given in a word bank following the passage. Read the passage through carefully before making your choices. Each choice in the bank is identified by a letter. Please mark the corresponding letter for each item on **Answer Sheet 2** with a single line through the centre. You may not use any of the words in the bank more than once.*

The idea of taxing things that are bad for society has a powerful allure. It offers the possibility of a double benefit— 26 harmful activities, while also providing the government with revenue.

Take sin taxes. Taxes on alcohol make it more expensive to get drunk, which reduces excessive drinking and 27 driving. At the same time, they provide state and local governments with billions of dollars of revenue. Tobacco taxes, which generate more than twice as much, have proven 28 in the decline of smoking, which has saved millions of lives.

Taxes can also be an important tool for environmental protection, and many economists say taxing carbon would be the best way to reduce greenhouse gas emissions. Economic theory says that unlike income or sales taxes, carbon taxes can actually increase economic efficiency; because companies that 29 carbon dioxide into the sky don't pay the costs of the climate change they cause, carbon taxes would restore the proper 30 to the market.

In reality, carbon taxes alone won't be enough to halt global warming, but they would be a useful part of any climate plan. What's more, the revenue from this tax, which would 31 be hundreds of billions of dollars per year, could be handed out to citizens as a 32 or used to fund green infrastructure projects.

Similarly, a wealth tax has been put forward as a way to reduce inequality while raising revenue. The revenue from this tax, which some experts 33 will be over \$4 trillion per decade, would be designated for housing, child care, health care and other government benefits. If you believe, as many do, that wealth inequality is 34 bad, then these taxes improve society while also 35 government *coffers* (金库).

- |                 |                 |
|-----------------|-----------------|
| A) discouraging | I) initially    |
| B) dividend     | J) instrumental |
| C) emotional    | K) merging      |
| D) fragments    | L) predict      |
| E) impaired     | M) probably     |
| F) imprisoned   | N) pump         |
| G) incentives   | O) swelling     |
| H) inherently   |                 |

## Section B

**Directions:** In this section, you are going to read a passage with ten statements attached to it. Each statement contains information given in one of the paragraphs. Identify the paragraph from which the information is derived. You may choose a paragraph more than once. Each paragraph is marked with a letter. Answer the questions by marking the corresponding letter on **Answer Sheet 2**.

### The Challenges for Artificial Intelligence in Agriculture

A) A group of corn farmers stands huddled around an *agronomist* (农学家) and his computer on the side of an irrigation machine in central South Africa. The agronomist has just flown over the field with a hybrid unmanned aerial vehicle (UAV) that takes off and lands using propellers yet maintains distance and speed for scanning vast hectares of land through the use of its fixed wings.

- B) The UAV is fitted with a four spectral band precision sensor that conducts onboard processing immediately after the flight, allowing farmers and field staff to address, almost immediately, any crop abnormalities that the sensor may have recorded, making the data collection truly real-time.
- C) In this instance, the farmers and agronomist are looking to specialized software to give them an accurate plant population count. It's been 10 days since the corn emerged and the farmer wants to determine if there are any parts of the field that require replanting due to a lack of emergence or wind damage, which can be severe in the early stages of the summer rainy season.
- D) At this growth stage of the plant's development, the farmer has another 10 days to conduct any replanting before the majority of his fertilizer and chemical applications need to occur. Once these have been applied, it becomes economically unviable to take corrective action, making any further collected data historical and useful only to inform future practices for the season to come.
- E) The software completes its processing in under 15 minutes producing a plant population count map. It's difficult to grasp just how impressive this is, without understanding that just over a year ago it would have taken three to five days to process the exact same data set, illustrating the advancements that have been achieved in precision agriculture and remote sensing in recent years. With the software having been developed in the United States on the same variety of crops in seemingly similar conditions, the agronomist feels confident that the software will produce a near accurate result.
- F) As the map appears on the screen, the agronomist's face begins to drop. Having walked through the planted rows before the flight to gain a physical understanding of the situation on the ground, he knows the instant he sees the data on his screen that the plant count is not correct, and so do the farmers, even with their limited understanding of how to read remote sensing maps.
- G) Hypothetically, it is possible for machines to learn to solve any problem on earth relating to the physical interaction of all things within a defined or contained environment by using artificial intelligence and machine learning.
- H) Remote sensors enable *algorithms*( 算法 ) to interpret a field's environment as statistical data that can be understood and useful to farmers for decision-making. Algorithms process the data, adapting and learning based on the data received. The more inputs and statistical information collected, the better the algorithm will be at predicting a range of outcomes. And the aim is that farmers can use this artificial intelligence to achieve their goal of a better harvest through making better decisions in the field.
- I) In 2011, IBM, through its R&D Headquarters in Haifa, Israel, launched an agricultural cloud-computing project. The project, in collaboration with a number of specialized IT and agricultural

partners, had one goal in mind—to take a variety of academic and physical data sources from an agricultural environment and turn these into automatic predictive solutions for farmers that would assist them in making real-time decisions in the field.

- J) Interviews with some of the IBM project team members at the time revealed that the team believed it was entirely possible to “algorithm” agriculture, meaning that algorithms could solve any problem in the world. Earlier that year, IBM’s cognitive learning system, Watson, competed in the game Jeopardy against former winners Brad Rutter and Ken Jennings with astonishing results. Several years later, Watson went on to produce ground-breaking achievements in the field of medicine.
- K) So why did the project have such success in medicine but not agriculture? Because it is one of the most difficult fields to contain for the purpose of statistical quantification. Even within a single field, conditions are always changing from one section to the next. There’s unpredictable weather, changes in soil quality, and the ever-present possibility that pests and diseases may pay a visit. Growers may feel their prospects are good for an upcoming harvest, but until that day arrives, the outcome will always be uncertain.
- L) By comparison, our bodies are a contained environment. Agriculture takes place in nature, among ecosystems of interacting organisms and activity, and crop production takes place within that ecosystem environment. But these ecosystems are not contained. They are subject to climatic occurrences such as weather systems, which impact upon hemispheres as a whole, and from continent to continent. Therefore, understanding how to manage an agricultural environment means taking literally many hundreds if not thousands of factors into account.
- M) What may occur with the same seed and fertilizer program in the United States’ Midwest region is almost certainly unrelated to what may occur with the same seed and fertilizer program in Australia or South Africa. A few factors that could impact on variation would typically include the measurement of rain per unit of a crop planted, soil type, patterns of soil degradation, daylight hours, temperature and so forth.
- N) So the problem with deploying machine learning and artificial intelligence in agriculture is not that scientists lack the capacity to develop programs and protocols to begin to address the biggest of growers’ concerns; the problem is that in most cases, no two environments will be exactly alike, which makes the testing, validation and successful rollout of such technologies much more laborious than in most other industries.
- O) Practically, to say that AI and Machine Learning can be developed to solve all problems related to our physical environment is to basically say that we have a complete understanding of all aspects of the interaction of physical or material activity on the planet. After all, it is only through our understanding of ‘the nature of things’ that protocols and processes are designed for the rational

capabilities of cognitive systems to take place. And, although AI and Machine Learning are teaching us many things about how to understand our environment, we are still far from being able to predict critical outcomes in fields like agriculture purely through the cognitive ability of machines.

- P) Backed by the venture capital community, which is now investing billions of dollars in the sector, most agricultural technology startups today are pushed to complete development as quickly as possible and then encouraged to flood the market as quickly as possible with their products.
- Q) This usually results in a failure of a product, which leads to skepticism from the market and delivers a blow to the integrity of Machine Learning technology. In most cases, the problem is not that the technology does not work, the problem is that industry has not taken the time to respect that agriculture is one of the most uncontained environments to manage. For technology to truly make an impact on agriculture, more effort, skills, and funding is needed to test these technologies in farmers' fields.
- R) There is huge potential for artificial intelligence and machine learning to revolutionize agriculture by integrating these technologies into critical markets on a global scale. Only then can it make a difference to the grower, where it really counts.
36. Farmers will not profit from replanting once they have applied most of the fertilizer and other chemicals to their fields.
37. Agriculture differs from the medical science of the human body in that its environment is not a contained one.
38. The agronomist is sure that he will obtain a near accurate count of plant population with his software.
39. The application of artificial intelligence to agriculture is much more challenging than to most other industries.
40. Even the farmers know the data provided by the UAV is not correct.
41. The pressure for quick results leads to product failure, which, in turn, arouses doubts about the applicability of AI technology to agriculture.
42. Remote sensors are aimed to help farmers improve decision-making to increase yields.
43. The farmer expects the software to tell him whether he will have to replant any parts of his farm fields.



44. Agriculture proves very difficult to quantify because of the constantly changing conditions involved.
45. The same seed and fertilizer program may yield completely different outcomes in different places.

## Section C

**Directions:** *There are 2 passages in this section. Each passage is followed by some questions or unfinished statements. For each of them there are four choices marked A), B), C) and D). You should decide on the best choice and mark the corresponding letter on **Answer Sheet 2** with a single line through the centre.*

### Passage One

Questions 46 to 50 are based on the following passage.

What is the place of art in a culture of inattention? Recent visitors to the Louvre report that tourists can now spend only a minute in front of the Mona Lisa before being asked to move on. Much of that time, for some of them, is spent taking photographs not even of the painting but of themselves with the painting in the background.

One view is that we have democratised tourism and gallery-going so much that we have made it effectively impossible to appreciate what we've travelled to see. In this oversubscribed society, experience becomes a commodity like any other. There are queues to climb Mt. Jolmo Lungma as well as to see famous paintings. Leisure, thus conceived, is hard labour, and returning to work becomes a well-earned break from the ordeal.

What gets lost in this industrialised haste is the quality of looking. Consider an extreme example, the late philosopher Richard Wollheim. When he visited the Louvre he could spend as much as four hours sitting before a painting. The first hour, he claimed, was necessary for misperceptions to be eliminated. It was only then that the picture would begin to disclose itself. This seems unthinkable today, but it is still possible to organise. Even in the busiest museums there are many rooms and many pictures worth hours of contemplation which the crowds largely ignore. Sometimes the largest crowds are partly the products of bad management; the Mona Lisa is such a hurried experience today partly because the museum is being reorganised. The Uffizi in Florence, another site of cultural pilgrimage, has cut its entry queues down to seven minutes by clever management. And there are some forms of art, those designed to be spectacles as well as objects of contemplation, which can work perfectly well in the face of huge crowds.

Olafur Eliasson's current Tate Modern show, for instance, might seem nothing more than an entertainment, overrun as it is with kids *romping* (喧闹地玩耍) in fog rooms and spray mist installations. But it's more than that: where Eliasson is at his most entertaining, he is at his most serious too, and his disorienting installations bring home the reality of the destructive effects we are having on the planet—not least what we are doing to the glaciers of Eliasson's beloved Iceland.

Marcel Proust, another lover of the Louvre, wrote: "It is only through art that we can escape from ourselves and know how another person sees the universe, whose landscapes would otherwise have remained as unknown as any on the moon." If any art remains worth seeing, it must lead us to such escapes. But a minute in front of a painting in a hurried crowd won't do that.

46. What does the scene at the Louvre demonstrate according to the author?
- A) The enormous appeal of a great piece of artistic work to tourists.
  - B) The near impossibility of appreciating art in an age of mass tourism.
  - C) The ever-growing commercial value of long-cherished artistic works.
  - D) The real difficulty in getting a glimpse at a masterpiece amid a crowd.
47. Why did the late philosopher Richard Wollheim spend four hours before a picture?
- A) It takes time to appreciate a piece of art fully.
  - B) It is quite common to misinterpret artistic works.
  - C) The longer people contemplate a picture, the more likely they will enjoy it.
  - D) The more time one spends before a painting, the more valuable one finds it.
48. What does the case of the Uffizi in Florence show?
- A) Art works in museums should be better taken care of.
  - B) Sites of cultural pilgrimage are always flooded with visitors.
  - C) Good management is key to handling large crowds of visitors.
  - D) Large crowds of visitors cause management problems for museums.
49. What do we learn from Olafur Eliasson's current Tate Modern show?
- A) Children learn to appreciate art works most effectively while they are playing.
  - B) It is possible to combine entertainment with appreciation of serious art.
  - C) Art works about the environment appeal most to young children.
  - D) Some forms of art can accommodate huge crowds of visitors.
50. What can art do according to Marcel Proust?
- A) Enable us to live a much fuller life.
  - B) Allow us to escape the harsh reality.
  - C) Help us to see the world from a different perspective.
  - D) Urge us to explore the unknown domain of the universe.

## Passage Two

Questions 51 to 55 are based on the following passage.

Every five years, the government tries to tell Americans what to put in their bellies. Eat more vegetables. Dial back the fats. It's all based on the best available science for leading a healthy life. But

the best available science also has a lot to say about what those food choices do to the environment, and some researchers are annoyed that new dietary recommendations of the USDA (United States Department of Agriculture) released yesterday seem to utterly ignore that fact.

Broadly, the 2016–2020 dietary recommendations aim for balance: More vegetables, leaner meats and far less sugar.

But Americans consume more calories per capita than almost any other country in the world. So the things Americans eat have a huge impact on climate change. Soil tilling releases carbon dioxide, and delivery vehicles emit exhaust. The government's dietary guidelines could have done a lot to lower that climate cost. Not just because of their position of authority: The guidelines drive billions of dollars of food production through federal programs like school lunches and nutrition assistance for the needy.

On its own, plant and animal agriculture contributes 9 percent of all the country's greenhouse gas emissions. That's not counting the fuel burned in transportation, processing, refrigeration, and other waypoints between farm and belly. Red meats are among the biggest and most notorious emitters, but trucking a salad from California to Minnesota in January also carries a significant burden. And greenhouse gas emissions aren't the whole story. Food production is the largest user of fresh water, largest contributor to the loss of biodiversity, and a major contributor to using up natural resources.

All of these points and more showed up in the Dietary Guidelines Advisory Committee's scientific report, released last February. Miriam Nelson chaired the subcommittee in charge of sustainability for the report, and is disappointed that eating less meat and buying local food aren't in the final product. "Especially if you consider that eating less meat, especially red and processed, has health benefits," she says.

So what happened? The official response is that sustainability falls too far outside the guidelines' official scope, which is to provide "nutritional and dietary information."

Possibly the agencies in charge of drafting the decisions are too close to the industries they are supposed to regulate. On one hand, the USDA is compiling dietary advice. On the other, their clients are US agriculture companies.

The line about keeping the guidelines' scope to nutrition and diet doesn't ring quite right with researchers. David Wallinga, for example, says, "In previous guidelines, they've always been concerned with things like food security—which is presumably the mission of the USDA. You absolutely need to be worried about climate impacts and future sustainability if you want secure food in the future."

51. Why are some researchers irritated at the USDA's 2016–2020 Dietary Guidelines?

- A) It ignores the harmful effect of red meat and processed food on health.
- B) Too much emphasis is given to eating less meat and buying local food.
- C) The dietary recommendations are not based on medical science.
- D) It takes no notice of the potential impact on the environment.

52. Why does the author say the USDA could have contributed a lot to lowering the climate cost through its dietary guidelines?
- A) It has the capacity and the financial resources to do so.
  - B) Its researchers have already submitted relevant proposals.
  - C) Its agencies in charge of drafting the guidelines have the expertise.
  - D) It can raise students' environmental awareness through its programs.
53. What do we learn from the Dietary Guidelines Advisory Committee's scientific report?
- A) Food is easily contaminated from farm to belly.
  - B) Greenhouse effect is an issue still under debate.
  - C) Modern agriculture has increased food diversity.
  - D) Farming consumes most of our natural resources.
54. What may account for the neglect of sustainability in the USDA's Dietary Guidelines according to the author?
- A) Its exclusive concern with Americans' food safety.
  - B) Its sole responsibility for providing dietary advice.
  - C) Its close ties with the agriculture companies.
  - D) Its alleged failure to regulate the industries.
55. What should the USDA do to achieve food security according to David Wallinga?
- A) Give top priority to things like nutrition and food security.
  - B) Endeavor to ensure the sustainable development of agriculture.
  - C) Fulfill its mission by closely cooperating with the industries.
  - D) Study the long-term impact of climate change on food production.

## Part IV Translation (30 minutes)

**Directions:** For this part, you are allowed 30 minutes to translate a passage from Chinese into English. You should write your answer on **Answer Sheet 2**.

青藏铁路是世界上最高最长的高原铁路,全长 1 956 公里,其中有 960 公里在海拔 4 000 多米之上,是连接西藏和中国其他地区的第一条铁路。由于铁路穿越世界上最脆弱的生态系统,在建设期间和建成后都采取了生态保护措施,以确保其成为一条“绿色铁路”。青藏铁路大大缩短了中国内地与西藏之间的旅行时间。更重要的是,它极大地促进了西藏的经济发展,改善了当地居民的生活。铁路开通后,愈来愈多的人选择乘火车前往西藏,这样还有机会欣赏沿线的美景。

## Part I Writing (30 minutes)

(请于正式开考后半小时内完成该部分,之后将进行听力考试)

**Directions:** For this part, you are allowed 30 minutes to write an essay on *why students should be encouraged to develop creativity*. You should write at least 150 words but no more than 200 words.



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