

國立彰化高中 112 學年度第一學期高三暑假作業考試英文科試題

範圍：常春藤解析英語 2023.8 月號

I. 詞彙與片語 (40%)

1. The scientist's groundbreaking research had an _____ impact on the understanding of the universe. (8/1)
(A) adequate (B) earnest (C) immense (D) occasional
2. After days of continuous rain, the crops were _____ visible beneath the flooded fields. (8/2)
(A) scarcely (B) unfortunately (C) relatively (D) acutely
3. The _____ of a rare butterfly species in the local park delighted those who happened to witness it. (8/3)
(A) background (B) emergence (C) nourishment (D) installation
4. The government implemented policies to _____ economic growth and boost employment opportunities in the country. (8/4)
(A) conserve (B) modify (C) transform (D) promote
5. Nancy is _____ the idea of raising taxes because she believes it will burden low-income families even more. (8/7)
(A) aware of (B) capable of (C) opposed to (D) harmful to
6. The athlete's outstanding performance earned him widespread _____ and praise from fans and critics alike. (8/8)
(A) recognition (B) foundation (C) motivation (D) destination
7. _____, the project faced a challenge, but with careful planning, the team was able to overcome it and achieve their goals. (8/9)
(A) Gradually (B) Initially (C) Continually (D) Essentially
8. The company had to _____ its manufacturing plant temporarily due to equipment failure and safety concerns. (8/10)
(A) correspond to (B) engage in (C) opt for (D) shut down
9. The Eiffel Tower, which symbolizes the beauty and charm of Paris, is one of the most _____ landmarks in the world. (8/14)
(A) reigning (B) frequent (C) iconic (D) official
10. The artist used vibrant colors to _____ a beautiful sunset over the sea in the painting. (8/15)
(A) trigger (B) detect (C) fulfill (D) portray
11. Moving to a new city can be _____ your social life as you have to make new friends from scratch. (8/16)
(A) credited as (B) relevant to (C) hard on (D) different from
12. The restaurant offers a vegetarian _____ on its menu for those who don't eat meat. (8/17)
(A) option (B) trend (C) benefit (D) institute

13. I struggle with fixing things because my knowledge of _____ systems is limited. (8/18)
 (A) advanced (B) enclosed (C) visual (D) mechanical
14. Taking regular breaks throughout the workday helps to keep a person _____ refreshed and focused. (8/21)
 (A) sincerely (B) mentally (C) namely (D) doubtfully
15. The school implemented strict policies to _____ discipline and maintain a positive learning environment for all students. (8/22)
 (A) extend (B) spare (C) enforce (D) signal
16. The old furniture in the garage _____ too much room, so I'm considering moving some items to the basement. (8/23)
 (A) relies on (B) takes up (C) stretches out (D) wears away
17. The baker spread a _____ of frosting on top of the cake for a sweet finish. (8/24)
 (A) blessing (B) category (C) layer (D) sequence
18. Jason performed _____ well on his exam and achieved the highest score in the class. (8/25)
 (A) exceptionally (B) partly (C) originally (D) mildly
19. We _____ to host a family reunion next month, so we recently sent out invitations to see how many relatives are available. (8/29)
 (A) quicken (B) adjust (C) reveal (D) intend
20. The firefighters responded quickly to the _____ call for help and rushed to put out the blazing fire. (8/30)
 (A) urgent (B) persistent (C) severe (D) opposite

II. 綜合測驗 (20%)

The moon often gives the impression of following us wherever we go. This interesting illusion can be explained by the moon's great distance and the lack of __21__ objects in the sky. In reality, the moon doesn't __22__ in the blink of an eye as we move. Its position remains relatively constant, just like other heavenly bodies. However, our perception creates the illusion of the moon __23__ our movements. This is because the sky is vast and there are very few visible objects that are similar in size to the moon. The moon, __24__ a large portion of our field of view, becomes our reference point in the night sky. Its constant presence creates the illusion that it follows us. This effect is made stronger by the __25__ of other prominent objects for accurate comparison. Understanding this optical illusion allows us to appreciate the vastness of the night sky. While we are on Earth, the moon remains in its position, reminding us of the beauty of the universe. (8/11)

21. (A) comparable (B) believable (C) habitable (D) tolerable
22. (A) bloom (B) cease (C) shift (D) dodge
23. (A) circulating (B) registering (C) accompanying (D) orbiting

24. (A) occupies (B) occupying (C) that occupies (D) which occupying
25. (A) diversity (B) emphasis (C) phenomenon (D) absence

Music is an important element of movies because it is used to set the tone of various scenes. __26__, without music, a scene might seem mildly funny. With the right music, it can seem hilarious. Horror films use music to great effect. It is common to hear a chilling piece of music in that __27__ of film. Those who create music for horror movies have certain techniques that they use. An eerie, regular rhythm helps to induce a fearful reaction from the audience. Scary films often include music with a low rhythmic beat. This helps the film __28__. Another method involves manipulating the pitch of the music when a terrifying monster appears on the screen. By increasing the pitch, the music __29__ the impact of the monster's presence, heightening the sense of fear and unease. Furthermore, music can also alter the mood of movies by abruptly changing its composition. A __30__ tune may suddenly change to become strange and irregular. Perhaps this means something terrible will happen or perhaps not. A good film soundtrack keeps an audience on its toes. (8/28)

26. (A) After all (B) Until now (C) For example (D) In addition
27. (A) source (B) genre (C) sound (D) release
28. (A) create laughter (B) release stress (C) take action (D) build tension
29. (A) alternates (B) intensifies (C) reverses (D) convinces
30. (A) harmonious (B) memorable (C) striking (D) bizarre

III. 文意選填 (16%)

Stingrays are fascinating creatures that have inhabited the Earth for over 150 million years. They __31__ an array of traits that set them apart from other marine species. One feature of stingrays is their mode of reproduction. Rather than laying eggs, they give birth to live young. Within their bodies, the eggs __32__ internally, and fully formed baby stingrays emerge. It is a spectacle of nature. Another remarkable feature is their lack of bones. Instead, stingrays have skeletons composed of cartilage, similar to their shark counterparts.

Equipped with a distinctive tail armed with a venomous stinger, stingrays have a dreadful defense mechanism. Although stingrays are not __33__ and attacks on humans are rare, when they are threatened or accidentally stepped on, swimmers may get stung. The stinger can cause extreme pain and, in rare cases, even lead to fatalities. Their ability to __34__ themselves aids their survival in the vast ocean.

Stingrays often exhibit a peculiar behavior of burying themselves in the sand with their stingers sticking out. This characteristic serves multiple purposes. It helps conceal them from potential predators, allowing them to blend into their

surroundings. Additionally, burying in the sand provides them with a feeling of safety and calmness, creating a(n) __35__ environment for resting and recovering.

These magnificent creatures play an essential role in maintaining the balance of marine ecosystems. They actively __36__ the nutrient cycle by consuming various organisms and recycling nutrients back into the environment. Their inactive nature and flexible feeding __37__ make them valuable participants to the overall health and vitality of the ocean. However, despite their incredible ability to endure, stingrays face numerous __38__, including the decline of their habitat, pollution, and overfishing. Several species of stingrays are currently endangered, bringing them close to the edge of extinction. Conservation efforts are crucial to safeguarding their habitats and preserving the biodiversity of our oceans. (8/1)

- (A) threats (B) aggressive (C) habits (D) fend for
(E) hatch (AB) possess (AC) peaceful (AD) contribute to

IV. 篇章結構 (8%)

Eating is necessary for survival, but it also brings us pleasure through delicious food. However, there is a potential danger stemming from the strong connection between food and enjoyment. __39__ Instead of seeking alternative ways like focusing on work or exercising, we find comfort in food to relieve these negative emotions. In other words, we may eat not purely out of hunger but rather to fulfill an emotional need. This behavior is commonly referred to as emotional eating.

Consuming food in this way provides only temporary feelings of satisfaction. __40__ Emotional eaters tend to gain weight, which increases their chances of suffering from chronic health conditions. Moreover, eating to feel better doesn't solve our problems. We may feel guilty about eating so much food and end up with more negative elements in our life, including the habit of overeating.

__41__ As a pattern of behavior, it can be controlled, but how? One suggestion is to distinguish between physical and emotional hunger. The latter suddenly happens when you feel overwhelmed. This negative feeling triggers a desire for food like sugary snacks. __42__ When you are more aware of the difference between these two types of hunger, it's easier to avoid the trap of emotional eating. The next time you want to grab a burger and fries from McDonald's because you are mad, stop and think about if you are eating emotionally. This small pause may help you calm down and think about eating something much healthier. (8/21)

- (A) It can have adverse effects on our physical and mental health.
(B) In contrast, physical hunger appears more gradually and comes from the biological urge to eat.
(C) In times of anxiety, stress, sadness, or boredom, we may resort to using food as a means of coping.

(D) It's important to note that emotional eating should be thought of as an established habit more than a disorder.

V. 閱讀測驗 (16%)

In a groundbreaking experiment, researchers from Google and Stanford University collaborated to explore the behavior of 25 AI virtual characters in a simulated town called Smallville. They sought to answer a simple yet profound question: What would happen when these AI agents were set free to interact in a virtual environment?

The team designed 25 generative AI agents, each with its own identity, goals, and role within Smallville—a simulated town featuring a park, a dormitory, a café, a bar, houses, and shops. These AI agents were then observed as they interacted with each other and their environments. Powered by ChatGPT, they were assigned various tasks such as shopping or reading books, and the results were astonishing. The AI agents exhibited “believable and emergent social behaviors,” engaging in debates over who should be the mayor of Smallville, turning off a stove to prevent breakfast from burning, and even organizing a Valentine’s Day party. These instances showcased the remarkable capabilities of the AI agents.

This experiment not only demonstrated AI’s ability as a virtual assistant but also expanded its scope far beyond. It provided a glimpse into the development of general AI, where AI tools are capable of performing human-level intelligent tasks. However, as one AI expert not involved in the study aptly remarked, “We’ve got a long, long way to go before that happens.”

The findings from the Smallville experiment are significant milestones on the path towards achieving independently operating AI. While Smallville may be a virtual town, the implications of this experiment extend far beyond it. It highlights the transformative power of AI and its potential to revolutionize various aspects of our lives, from virtual simulations to real-world applications. As researchers continue to push the boundaries of AI capabilities, we eagerly anticipate the next steps in harnessing the potential of this technology for the benefit of humanity. (8/3)

43. What was the main objective of the experiment conducted in Smallville?

- (A) To explore the social dynamics of a virtual town.
- (B) To develop generative AI agents with unique identities.
- (C) To investigate the impact of AI on real-world applications.
- (D) To observe the behavior of AI agents in a simulated environment.

44. What did the Smallville experiment reveal about AI’s capabilities?

- (A) AI’s potential for real-world applications is still limited.
- (B) AI agents can effectively assist in virtual simulations only.
- (C) AI agents will be able to perform human-level intelligent tasks.
- (D) AI agents struggle to interact and adapt in simulated environments.

45. What do the findings of the Smallville experiment signify?
- (A) AI technology is nearing the development of independently operating AI.
 - (B) The experiment demonstrates the limitations of AI agents' social behaviors.
 - (C) Virtual towns like Smallville have the potential to revolutionize AI research.
 - (D) The Smallville experiment has no significant implications beyond virtual simulations.

46. If the following sentences were to be included in the passage, in which paragraph would they be placed? (素養題)

Humans can interact with them, too. Users can observe and intervene as agents plan their days, share news, form relationships, and coordinate group activities.

- (A) Paragraph 1.
- (B) Paragraph 2.
- (C) Paragraph 3.
- (D) Paragraph 4.

Artists are inspired by many things, such as beauty, love, and ambition. But could air pollution have been the muse for Claude Monet, one of the most famous painters of all time? There is some evidence that suggests a significant amount of the French painter's artwork was influenced or inspired by how air pollution affected light and vision.

Monet was born in Paris in 1840 and lived until 1926. He is famously credited as the founder of an artistic style that became to be known as impressionism. Instead of attempting to paint people and landscapes in exact detail, impressionist artists used many thin brushstrokes to create dream-like qualities. Artists like Monet aimed to convey the sensations they experienced when they saw the world. Monet's landscapes often have a hazy appearance—it's as if something in the air blurs edges and obscures objects that are far away. His renowned *Water Lilies* series captures the beauty of serene ponds with colorful flowers floating on the water. He dedicated 30 years to working on this series before his passing. In *Water Lilies* and his many other paintings, there is a hazy aspect that has prompted some researchers to suggest the presence of pollution in the air influenced Monet's artistic style.

They point out that he was painting at a time when heavy industry was beginning to have a serious impact on the environment, especially in big urban areas such as Paris and London. The hypothesis suggests that his artworks **reflect** the rising levels of air pollution prevalent in Europe during the late 19th and early 20th centuries. Also, he sometimes mentioned the air quality and the appearance of environments he was painting in letters to his wife. Interestingly, he even indicates a preference for the smoke and fog produced by human activity in some of his letters. This suggests that the air conditions influenced the development of impressionism as an art movement. (8/15)

47. What is the main idea of this passage?
- (A) Dream-like qualities of landscapes were captured in Monet's paintings.
 - (B) Monet is widely recognized as the pioneer of impressionism.
 - (C) Monet's artistic style was inspired by his love for beauty.

(D) Air pollution potentially influenced Monet's artistic style.

48. Which of the following aspects of Monet's painting is **NOT** discussed in the passage?

(A) Artistic Influence.

(B) Symbolism.

(C) Technique.

(D) Subject.

49. Where would this passage most likely be found?

(A) In a novel centered around European history.

(B) In a magazine focusing on 20th-century landscapes.

(C) In an exhibition of children's books from around the world.

(D) On a website providing fine arts education for young adults.

50. Which usage of the word "**reflect**" is closest to the one in the third paragraph?

(素養題)

(A) The company's success reflects the hard work of its employees.

(B) The light-colored roof reflects heat, keeping the interior cool.

(C) After the project, I reflected on my performance to improve.

(D) The calm lake perfectly reflects the surrounding mountains.