

106 學年度全國高級中學
學科能力測驗模擬考試

英文考科

—作答注意事項—

考試範圍：第 1～5 冊

考試時間：100 分鐘

題型題數：

第壹部分

- 單選題共 56 題

第貳部分

- 非選擇題共二大題

作答方式：

- 選擇題用 2B 鉛筆在「答案卡」上作答；更正時，應以橡皮擦擦拭，切勿使用修正液（帶）。
- 非選擇題用筆尖較粗之黑色墨水的筆在「答案卷」上作答；更正時，可以使用修正液（帶）。
- 未依規定畫記答案卡，致機器掃描無法辨識答案；或未使用黑色墨水的筆書寫答案卷，致評閱人員無法辨認機器掃描後之答案者，其後果由考生自行承擔。
- 答案卷每人一張，不得要求增補。

祝考試順利



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第壹部分：單選題（占 72 分）

一、詞彙題（占 15 分）

說明：第 1 題至第 15 題，每題有 4 個選項，其中只有一個是正確或最適當的選項，請畫記在答案卡之「選擇題答案區」。各題答對者，得 1 分；答錯、未作答或畫記多於一個選項者，該題以零分計算。

1. In spite of many differences, there is a striking _____ among these cases: the suspect is left-handed.
(A) assembly (B) mixture (C) similarity (D) involvement
2. Never approach the coast once a typhoon alert is issued because _____ sea waves may devour you.
(A) flexible (B) restless (C) earnest (D) severe
3. How could a person with _____ physical talent like him have difficulty learning to ride a bicycle?
(A) exceptional (B) permanent (C) insufficient (D) ambiguous
4. How lucky I am to have a husband as my _____ of strength, who is always standing by to offer help and support.
(A) relay (B) slavery (C) pillar (D) twilight
5. The novice actor _____ to superstardom as his debut turned out to be a surprise blockbuster.
(A) collided (B) exclaimed (C) justified (D) ascended
6. To perform well on the upcoming college entrance exam, I strictly _____ the use of my smartphone and resist any temptation from the Net.
(A) inspect (B) regulate (C) circulate (D) enforce
7. Nowadays, teachers would build professional learning communities whereby they work _____ for more feasible teaching techniques.
(A) collaboratively (B) hesitantly (C) explicitly (D) concisely
8. As cancer cells have _____ the bone in the patient's right leg, amputation seems to be inevitable.
(A) persuaded (B) obtained (C) invaded (D) navigated
9. Being shown a photo of her ex with his new girlfriend, Julia gave a _____ and said, "Not that I care."
(A) shrug (B) wail (C) shriek (D) whisk
10. Professor Yeh has earned a(n) _____ of being an educator who incorporates games into learning, and been invited to give many speeches on this topic.
(A) gratitude (B) instruction (C) latitude (D) reputation
11. Carl displays a strong bias against those who are inferior to him, and _____ any proposal they bring up.
(A) mocks (B) launches (C) consents (D) bribes

12. The family of the terminally-ill patient are in _____ need of a miracle, anxiously hoping he will become lively again.
(A) extensive (B) desperate (C) courteous (D) financial
13. Sitting under the big tree and hearing the leaves _____ in the breeze, I can feel peaceful and completely relaxed in the afternoon.
(A) polish (B) glitter (C) paddle (D) rustle
14. Jumping off the cliff without any protective gear is a misjudged and _____ challenge, which should be banned.
(A) overhead (B) solemn (C) reckless (D) liberal
15. Over the three years in high school, James has exerted himself and _____ got good grades, which is why he is going to graduate with flying colors.
(A) indifferently (B) consistently (C) unfortunately (D) extremely

二、綜合測驗（占 15 分）

說明：第 16 題至第 30 題，每題一個空格，請依文意選出最適當的一個選項，並畫記在答案卡之「選擇題答案區」。各題答對者，得 1 分；答錯、未作答或畫記多於一個選項者，該題以零分計算。

第 16 至 20 題為題組

As the youth are encouraged to expand their horizons by taking a gap year before going to college, more and more people aged over 50 are volunteering overseas. Though retired, these people are valuable 16. with a lifetime's experience, knowledge and skills. By helping children 17. education to read, mentoring underprivileged youngsters or transforming an industrial wasteland into an urban park, these volunteers are changing not only the locals' life but also their own life.

Fiona Harper got severely injured in an accident several years ago, and recovered well afterwards. 18., her confidence in herself was shattered. In an attempt to restore her confidence, she started to learn Spanish, 19. her onto the path of volunteering in Honduras and Guatemala, where she worked in a children's center and taught English at a school. Fiona felt she took more than she could give as a volunteer overseas, so she said, "you should respect the poor or the needy, and be 20. about your volunteering."

Fiona is not alone in volunteering overseas. According to International Development Charity Voluntary Service Overseas, volunteers over 50 are increasing, accounting for almost 30% of the volunteers.

16. (A) assets (B) empires (C) facilities (D) bundles
 17. (A) confined to (B) deprived of (C) exposed to (D) obsessed with
 18. (A) Therefore (B) Similarly (C) Moreover (D) Nevertheless
 19. (A) which led (B) to lead (C) that led (D) and led
 20. (A) shameful (B) sympathetic (C) modest (D) aggressive

第 21 至 25 題為題組

Twenty years after Diana, Princess of Wales, died in a car crash in a Paris tunnel, the world is still remembering this charming princess. Lady Diana Spencer married Prince Charles at merely 20 and their 21 wedding, watched by millions around the world, looked like something out of a fairy tale. 22 the birth of two little princes, the romance of their marriage of the century didn't last long. The marriage was dissolved one year before Diana died, and both occurrences came so 23 that many people couldn't believe this "people's princess" was gone forever.

Diana altered the idea of what a princess should be like, displaying an amiable and accessible image to the world. She committed herself to many charitable and humanitarian 24 that the royal family would not normally take on. In private, she guided her sons to have 25 as possible and meanwhile never to forget lives outside the palace walls. No wonder she is still esteemed by the world — not because of her fabulous fashion choices, but because of her legacy that has inspired her sons and the world.

21. (A) splendid (B) substantial (C) ordinary (D) absurd
22. (A) In light of (B) Besides (C) On account of (D) Despite
23. (A) impulsively (B) infinitely (C) abruptly (D) contagiously
24. (A) catches (B) causes (C) firms (D) funds
25. (A) such a normal life (B) too normal a life (C) as normal a life (D) a life normal enough

第 26 至 30 題為題組

There are about 20 supervolcanoes around the world. If any of them erupts, the falling ash will spread out over hundreds of miles, 26 sunlight and probably leading to volcanic winter — if it persists for a long time. 27, enormous gases ejected from the volcano will also bring about acid rain and air pollution. Some are 28 eyes, skin and respiratory system, posing great threats to human's health. Recently, NASA is determined to develop countermeasures against eruptions of a supervolcano, 29 back in June, the Yellowstone Supervolcano was rocked by over 450 small quakes in the same week. NASA plans to set up a coolant system by placing a drill into the supervolcano and filling it with cold water. However, this seemingly viable plan is soon 30 because to cool thousands of cubic kilometers of magma below the surface of the Earth is out of reach. Although NASA's plan to quell the Yellowstone Supervolcano sounds like a mission impossible now, it may become feasible someday as human beings keep digging into the mystery of the Earth.

26. (A) getting over (B) adjusted to (C) blocking out (D) blanketed by
27. (A) On the whole (B) At any rate (C) By contrast (D) In the meantime
28. (A) irritating to (B) unconscious of (C) infected with (D) inadequate for
29. (A) though (B) for (C) whereas (D) lest
30. (A) provoked (B) embarked (C) choked (D) challenged

三、文意選填（占 10 分）

說明：第 31 題至第 40 題，每題一個空格，請依文意在文章後所提供的(A)到(J)選項中分別選出最適當者，並將其英文字母代號畫記在答案卡之「選擇題答案區」。各題答對者，得 1 分；答錯、未作答或畫記多於一個選項者，該題以零分計算。

第 31 至 40 題為題組

Blood was once under a shroud of mystery hundreds of years ago. It's all because ancient people had little knowledge of its 31 and function. Blood had been believed to be so 32 an element in the body that it was woven into a couple of everyday expressions, such as "cold-blooded" and "bad blood," meaning "ruthless" and "resentment" respectively. Bloodletting was an example of humans' ignorance of blood, and had long been a common medical 33 till it was discredited in modern days. Practitioners believed that a(n) 34 of blood resulted in ailments and sicknesses. Another example was the 35 use of herbal remedies for the purpose of "thinning" blood, which explains why many countries still have the tradition of drinking herbal tea to prevent blood clot.

The first documented human blood transfusion was performed by Jean-Baptiste Denis in France, 1667. Denis 36 to save two men's lives miraculously by giving them sheep's blood. However, his third patient tragically 37 after blood transfusion since Denis had no clue of the incompatibility of different species and blood types. It was not until Dr. Karl Landsteiner's discovery of the three main blood categories that a(n) 38 was able to conduct a successful blood transfusion.

It is known that Dr. Charles Drew should be 39 with the establishment of modern blood banks as he developed the technique of separating plasma and storing it, which helped save numbers of wounded soldiers in World War II. With 40 improvements such as the addition of sodium citrate to prevent clotting and the test of hepatitis, more blood banks or centers were founded. Today, many people give blood routinely around the world and help save lives.

- (A) excess (B) later (C) physician (D) nature (E) managed
(F) crucial (G) perished (H) widespread (I) credited (J) procedure

四、閱讀測驗（占 32 分）

說明：第 41 題至第 56 題，每題請分別根據各篇文章之文意選出最適當的一個選項，請畫記在答案卡之「選擇題答案區」。各題答對者，得 2 分；答錯、未作答或畫記多於一個選項者，該題以零分計算。

第 41 至 44 題為題組

It's taken for granted that bicycle riders and athletes wear helmets to protect their head. The human brain is a soft, vulnerable mass of tissue, bathed in cerebrospinal fluid within the skull. Resembling Jell-O, the brain shifts, rebounds against the skull and deforms as the head is impacted. The brain tissue and nerve connections are accordingly pressured, which may cause concussion and other long-term brain damage. However, wearing a helmet offers protection just from the outside;

what the brain really needs is protection from the inside. A high-tech company is happy to announce that their newly-invented device, called the Q-Collar, is aimed at football players, who are prone to concussion even though they have full protective gear on, and that it will reverse the traditional method for head protection.

According to one of the inventors, David Smith, the idea for the Q-Collar came from woodpeckers. Woodpeckers perch vertically on tree trunks, poking and pounding the tree up to twenty times a second. Surprisingly, they never suffer concussion. Earlier studies show that they can have the blood volume in their skulls expanded by using their long tongue to clamp the jugular vein, which creates a “bubble-wrap” for the brain. Like a woodpecker’s tongue, the Q-Collar slightly pinches the athlete’s jugular vein so as to make the brain filled with more blood, which serves as shock absorbers.

According to Smith, we experience pretty much the same effect when we lie down, which of course is harmless since we sleep for hours every day. The Q-Collar has been proved to be significantly effective through experiments on high school football players. Of course, further research and more evaluations are needed since it has not yet been approved by the Food and Drug Administration. But the prospect of the Q-Collar is exciting since we are on the right track to give protection from the inside, and also inspiring as it can be applied to the design of seat belts.

41. What is the main purpose of this passage?
- (A) To introduce an invention.
 - (B) To explain how concussion happens.
 - (C) To compare a bird and a technological device.
 - (D) To emphasize the importance of sports injury prevention.
42. Why does the author mention woodpeckers in the second paragraph?
- (A) The blood flow in woodpeckers’ brain is the largest and steadiest.
 - (B) The Q-Collar has borrowed their behavior of hammering the tree trunk.
 - (C) The design of the Q-Collar is inspired by woodpeckers’ unique structure in the head.
 - (D) Woodpeckers have a strong skull that never gets injured however hard it is impacted.
43. According to the passage, which of the following statements can be inferred?
- (A) The leak of cerebrospinal fluid is the main cause of concussion.
 - (B) The Q-Collar is expected to replace all types of helmets in the future.
 - (C) A certain percentage of football players must have suffered brain damage more or less.
 - (D) The Q-Collar has become regular gear for lots of American high school football teams.
44. What does the author imply about the Q-Collar?
- (A) It’s innovative, but not practical.
 - (B) It’s inspiring, but is limited in use.
 - (C) It’s quite effective, but too complicated to use.
 - (D) It’s not officially on the market, but is promising.

第 45 至 48 題為題組

Some plant fanatics think that growing plants needs something more than sunlight, water and good soil. They believe talking to their plants or playing sweet melodies for them can help them grow well. Well, they will be thrilled to learn that a new book supports their seemingly-odd behavior.

The book, entitled *The Botany of Desire*, is written by Michael Pollan, an American author, columnist and journalist who has probed deep into the developments in plant science. In his book, Pollan claims that plants have senses as we do. They can sense sounds, vibrations, taste and even gravity or anything that is in their way. One simple example is that plant roots change growing direction to avoid barriers. Plants can gather all the sensory information, and subsequently react in a proper way. But they do it without the brain, the assumed organ for processing information.

According to Pollan, the new idea mentioned in his book is a brand new field — plant neurobiology, which sounds **whacky** since plants do not have neurons. However, a number of studies show that they respond and perhaps, learn, which most scientists are reluctant to agree on. Pollan illustrates an experiment conducted by Monica Gagliano, an Australian biologist. In her experiment on the mimosa pudica, which tends to fold the leaves inward when touched, many pots were dropped several times, but only within a safe distance. At first, the leaves of the mimosa pudica collapsed as expected. The dropping continued every five seconds. After six or seven drops, the mimosa pudica stopped curling up its leaves. It seems that the plant made a judgment based on its memory and experience, and learned to ignore the later drops since it knew it was in a secure environment.

“Plants are amazing; they can respond to dozens of environmental variables,” Pollan states. Although whether it should be called intelligence is still not settled, their problem-solving capability is beyond our knowledge.

45. What is the main idea of this passage?
- (A) Plants may have the ability to learn.
(B) Plants may have emotions and feelings.
(C) Plants should be regarded as animals as well.
(D) Plants are superior to most of the creatures in the world.
46. According to the passage, which of the following about Monica Gagliano is true?
- (A) She advocates playing music to plants so as to make them prosperous.
(B) Her book, *The Botany of Desire*, mainly discusses the developments of plants.
(C) She believes plants are aware of their environment, and can use reasoning about it.
(D) The mimosa pudica in her experiment was unable to fold the leaves during the drops.
47. What does the word “**whacky**” in the third paragraph probably mean?
- (A) Normal. (B) Strange. (C) Exciting. (D) Gloomy.
48. Why does Michael Pollan mention Monica Gagliano in his book?
- (A) He tries to prove her wrong in his book.
(B) She shares similar viewpoints on plants with him.
(C) Her experiment is controversial and he intends to conduct it all over again.
(D) He acknowledges her contribution to the full understanding of plant neurobiology.

55. Which of the following is **NOT** mentioned in the second paragraph?
- (A) A study on the environmental benefits of home sharing.
 - (B) Some statistics that prove how green Airbnb users are.
 - (C) A new trend of tourism and hospitality industry.
 - (D) Doubts about the validity of the study and its findings.
56. According to the passage, why is Airbnb faced with widespread oppositions from the authorities concerned?
- (A) Deeply affected, traditional hospitality industry protests to the government.
 - (B) Conflicts among tenants, hosts, and Airbnb take place and nobody can take charge of them.
 - (C) The Airbnb community itself has gone astray and become a hotbed of crime.
 - (D) Neighbors of those who lease the house report the hosts to the authorities.

第貳部分：非選擇題（占 28 分）

說明：本部分共有二題，請依各題指示作答，答案必須寫在「答案卷」上，並標明大題號（一、二）。作答務必使用筆尖較粗之黑色墨水的筆書寫，且不得使用鉛筆。

一、中譯英（占 8 分）

說明：1. 請將以下中文句子譯成正確、通順、達意的英文，並將答案寫在「答案卷」上。
2. 請依序作答，並標明子題號。每題 4 分，共 8 分。

1. 一個高中生學會表達自己對社會議題的見解是很重要的。
2. 然而，可惜的是許多青少年寧願跟隨群眾，也不要自己組織資訊並獨立思考。

二、英文作文（占 20 分）

說明：1. 依提示在「答案卷」上寫一篇英文作文。
2. 文長至少 120 個單詞（words）。

提示：有人說，學習不應該侷限在學校教室裡。請寫一段短文，文分兩段，第一段敘述你在學校教室外的學習經驗，並在第二段說明你認為在學校教室裡學習成效好，還是在學校教室以外？並說明原因。

