

臺中市立高級中等學校

106 學年度學科能力測驗第二次聯合複習考試

考試日期：106 年 12 月 18~19 日

英文考科

—作答注意事項—

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。

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. The terror threat level in the United Kingdom has been _____ from “severe” to “critical” immediately after a bucket bomb went off on a commuter train at Parsons Green Station.
(A) raised (B) risen (C) aroused (D) arisen
2. After a series of terrorist attacks, more and more anti-refugee rallies were launched in Europe. However, the UN Refugee Agency still emphasizes that _____ should outweigh national security when it comes to resettling the refugees.
(A) concentration (B) diligence (C) humiliation (D) humanity
3. According to the new high school curriculum enacted by the Ministry of Education, there is a _____ toward cooperation across the bounds of school subjects.
(A) tendency (B) character (C) device (D) migration
4. People are not able to exert full control over their body reactions, so it is normal for people to laugh _____ when they get tickled. Yet it is a painful laugh.
(A) regrettably (B) involuntarily (C) incredibly (D) roughly
5. When asked her feelings about her husband’s scandal, the renowned producer kept silent with a _____ and thoughtful look and was unwilling to make any comment.
(A) hopeful (B) genuine (C) sensitive (D) grave
6. Due to North Korea’s frequent nuclear tests regardless of other countries’ warnings, China has resolved to launch an economic sanction by _____ the amount of oil supply to its long-term ally.
(A) blazing (B) supplementing (C) foreseeing (D) restricting
7. The old man who lived alone in a remote village was _____ by the warm gesture when a social worker paid him a visit at his house and handed him a hot meal box.
(A) ashamed (B) exposed (C) overwhelmed (D) paralyzed
8. Only through mutual _____ with companies based in foreign countries can colleges in Taiwan seek out for their students’ internship in the summer time.
(A) ambition (B) cooperation (C) gloom (D) downfall
9. Back in the Middle Ages, Europeans _____ an epidemic disease, known as the Black Death with no cure for it and later resulting in around 70 million deaths.
(A) excluded (B) demonstrated (C) assessed (D) contracted
10. The baker _____ the top of the cake to meet her client’s demand: a miniature London Eye in proportion to the actual size of the Ferris wheel.
(A) ornamented (B) oppressed (C) surrendered (D) signified
11. _____ of the negative effects of poor air quality on public health, France has announced it will ban all petrol and diesel vehicles by 2040.
(A) Envious (B) Innocent (C) Aware (D) Tolerant

12. The athlete's perseverance paid off; he happily _____ the rewards of his hard work at the international marathon race by winning first prize.
(A) dismissed (B) harvested (C) enclosed (D) neglected
13. The authorities concerned promised to thoroughly _____ the cause of the massive power outage which affected 6.88 million households on Aug. 15.
(A) calculate (B) withdraw (C) eliminate (D) investigate
14. Thanks to the _____ of surveillance cameras, the police quickly arrested the driver who hit a man and then drove away.
(A) generosity (B) security (C) similarity (D) popularity
15. After the policy "one fixed day off and one flexible rest day" was put into _____, a lot of employers have been complaining about the increased personnel costs.
(A) operation (B) formation (C) recognition (D) observation

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

Child marriage, which refers to marriage before the age of 18, is a basic violation of human rights. According to the statistics released by UNICEF, one in three young women in Africa are married at 18. Such practice especially 16 in the developing countries.

Many factors are interrelated to putting a girl at risk of early marriage, one of them being poverty. What's worse, it is commonly perceived that marriage will provide girls with protection and family honor. Moreover, an inadequate 17 system worsens the situation because customary or religious laws dominate the developing countries. Even girls from the wealthiest households are likely to be married before they reach 18. Child marriage often compromises a girl's development by resulting in early pregnancy and social isolation, interrupting her schooling, limiting her opportunities for career and vocational advancement and placing her at risk of 19 violence. This denies girls' opportunities to make their choices in lives, such as when and whom to marry, and their 20 in terms of their rights as a human being. With the child population expected to grow rapidly in the coming years, millions more girls will be at risk of child marriage.

16. (A) devours (B) guarantees (C) prevails (D) grins
 17. (A) legislative (B) commercial (C) abusive (D) automatic
 18. (A) capacity (B) maturity (C) surrender (D) symphony
 19. (A) conscious (B) delightful (C) rear (D) domestic
 20. (A) jail (B) eloquence (C) dignity (D) article

第 21 至 25 題為題組

Are you poisoning the planet with your coffee habit? More than likely – but you're 21 alone. Less than one percent of the estimated 2.5 billion disposable cups used in the UK each year are recycled because of the difficulties of ripping out the plastic lining. Two Bulgarians, Mladen Djaluzov and Miroslav Zaprianov, 22 an edible and biodegradable wafer cup made from natural grain ingredients. The crispy texture manages to hold drinks 23 leaking and changing the taste of the beverage it contains. Furthermore, the cup's thermal and moisture resistance is achieved without any icings or coatings, which means the cup is non-toxic for consumers. The wafer cup can be used with any temperature of drink; 24, due to its edible and biodegradable nature, it should not be used to hold a drink for more than 40 minutes. By choosing a cup that is able to naturally 25 in

several weeks, or that can be eaten instead, each consumer can reduce their carbon footprint in the world.

21. (A) at most (B) far from (C) in contrast (D) beyond doubt
22. (A) translated (B) resisted (C) disguised (D) patented
23. (A) without (B) despite (C) under (D) through
24. (A) therefore (B) otherwise (C) nevertheless (D) afterwards
25. (A) prosper (B) decompose (C) recover (D) circulate

第 26 至 30 題為題組

Yang Chun-han, finishing first place in the 100-meter dash, won the country's first-ever gold medal in a men's running event at the Taipei Universiade. Yang, 26 the fastest man in Taiwan, clocked 10.22 seconds to grab the title, beating South African sprint star Thando Roto, who 27 silver with 10.24 seconds, and the United States' Cameron Burrell, who took bronze with a time of 10.27 seconds. Yang's victory makes him the second person in Taiwan's history to win a gold medal at a running event in Universiade. The first person was 28 track and field athlete Wang Huei-chen in the women's 200-meter sprint at the 1991 Summer Universiade in the United Kingdom.

When asked who he hoped to attribute his win to, Yang replied that many images 29 his mind when he won the gold medal. "I'd like to extend my 30 to those who helped and encouraged me at crucial moments," he said, adding that his teammates, teachers, coaches, family and sports officials all played a part in his success.

26. (A) dubbing (B) dub (C) who dubbed (D) dubbed
27. (A) declared (B) claimed (C) awarded (D) bore
28. (A) formal (B) former (C) prior (D) expressive
29. (A) flashed through (B) ran into (C) dawned on (D) appealed to
30. (A) apology (B) condolence (C) gratitude (D) satisfaction

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

Typhoons and hurricanes are destructive cyclones. They are 31 names for the same kind of storm, though. If you were somewhere near the Philippines, the coast of China or Japan, and experiencing a tropical storm with 32 winds over 74 mph, you would be in a typhoon that has moved off the Pacific ocean and hit land. If you were experiencing similar winds 33 from Hawaii to the Mexican coast or close to Caribbean, Gulf of Mexico and east coast of North America, you would be in a hurricane. A "Super Typhoon" is equivalent to the hurricane in the 34 of 4 or 5.

Despite the fact that the two cyclones share lots of similar features, there are some 35 differences in them. Because of the large expanse of the tropical ocean in the western Pacific and other global atmospheric 36, typhoons are more common than hurricanes. On average, there are 25 to 30 storms that rise to the status of a named typhoon every year, but only 6 to 10 become hurricanes. The likelihood of a storm 37 into either kind of cyclone depends on two factors. The general atmosphere plays a crucial part. Besides, its occurrence is under the 38 of ocean temperatures. When conditions are good in the western North Pacific for forming typhoons, the circumstances for hurricanes to take shape are 39 in the North Atlantic and vice versa. For this reason, it is rare to hear about major storms occurring at the exact same time. Even though they don't often happen 40, both typhoons and hurricanes are most frequently seen in the months of June through November. So watch out for the strong typhoons or hurricanes that come along during these months.

- (A) sway (B) striking (C) roughly (D) regional (E) evolving
(F) simultaneously (G) sustained (H) patterns (I) category (J) suppressed

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

An Islamic practice permitting men to instantly divorce their wives has been declared unconstitutional by India's Supreme Court, marking a huge victory for India's 90 million Muslim women.

In person, over the phone, in a letter or even on WhatsApp, Muslim men in India who repeat the word "talaq" three times can instantly end their marriages. However, such divorces are available only to men. Over the years, thousands of Muslim women in India have been discarded by their husbands in such a one-sided manner, usually without any alimony or other financial support. Many of the divorced women are forced to get separated from their children or face extreme poverty.

Even though the practice has existed for centuries, "triple talaq" is not mentioned in Sharia Islamic law or the Quran, which instead orders that the word "talaq" be said over three months, allowing a couple time for reflection and reconciliation. Many Islamic countries, like neighboring Pakistan and Bangladesh, have banned the practice, but it has continued in India, home to the world's second-largest group of Muslims. India allows religious communities to apply their own laws in personal matters such as marriage, divorce and property inheritance.

India's Supreme Court took up the issue in response to a petition from two rights groups and five Muslim women who had been divorced in this way. A majority of Supreme Court judges called the practice "un-Islamic, arbitrary and unconstitutional." The judges also recommended that the parliament come up with a new law within six months. Though Muslim groups maintained that the court had no right to interfere in religious matters, India's Prime Minister, Narendra Modi, praised the ruling, supporting an end to the practice.

41. What is the main idea of this passage?
- (A) India, a country with diverse religions, has the second-largest Muslim population in the world.
 - (B) India's Supreme Court has declared the long-practiced custom of triple talaq unconstitutional.
 - (C) Many Islamic countries, like Pakistan and Bangladesh, have banned the custom of triple talaq.
 - (D) Muslim groups maintained that the court had no right to interfere in religious matters.
42. According to the passage, which of the following statements about the "triple talaq" custom in India is true?
- (A) It has been practiced for centuries and Muslim women can divorce their husbands in the same way.
 - (B) Muslim men can instantly end their marriages by repeating "talaq" three times only in the presence of their wives.
 - (C) Muslim husbands are responsible for helping support divorced wives who can require half of their husbands' property.
 - (D) It can lead and has led to some negative consequences for Muslim women who are unexpectedly and suddenly divorced from their husbands.
43. Why has the "triple talaq" custom, banned in much of the Islamic world, continued in India?
- (A) Islam is one of the major religions in India, which is home to the world's second-largest group of Muslims.
 - (B) Muslims in India maintain that "triple talaq," which has been practiced for centuries, is mentioned in the Quran.
 - (C) India allows religious communities to govern personal matters, such as marriage and divorce, independently.
 - (D) The Indian government has supported the practice of instant divorce due to the strong pressure from Muslim groups.

44. What does the word “**arbitrary**” in the fourth paragraph most likely mean?
(A) Undeniable. (B) Unreasonable. (C) Inefficient. (D) Indispensable.

第 45 至 48 題為題組

Mercy Ships is an international charity, which offers free medical services and operates the largest non-governmental hospital ship in more than 57 developing nations and 18 developed nations around the world, with a current focus on the countries of Africa because many people there have little or no access to healthcare. There are only 2.5 physicians per 10,000 people in Africa, compared to 25 physicians per 10,000 people in the U.S.

In 1978, Don and Deyon Stephens co-founded the organization based in Texas. They purchased retired vessels and transformed them into floating hospitals. Don Stephens’ former research showed that 95 of the 100 largest cities in the world were port cities. Therefore, a hospital ship could deliver healthcare very efficiently to large numbers of people. The birth of Stephens’ critically disabled son also motivated him to carry out his wish of a floating hospital. Furthermore, a visit with Mother Teresa prompted his commitment to serving those in desperate need.

When Mercy Ships arrives in ports, patients near the port can easily travel to the ship, but for others, reaching the ship is more difficult. Therefore, a Hospital Out-Patient Extension (HOPE) center is established to provide free housing for patients and caregivers near the ship. After surgery, the HOPE center offers a safe, clean accommodation for patients’ easy access to the ship for follow-up care.

The major tasks of Mercy Ships involve operations, such as cleft lip and palate, cataract removal, straightening of crossed eyes, and orthopedic and facial reconstruction as well as training for more than 5,900 local professionals – surgeons, nurses, doctors, dentists, ophthalmologists, midwives, and community health workers. Besides, sustainable community development projects to enhance water sanitation, education, infrastructure development and agriculture are also part of their missions.

45. How many times are the doctors per 10,000 people in the U.S. the number of those in Africa?
(A) 5 times. (B) 10 times. (C) 15 times. (D) 20 times.
46. Why does the founder of Mercy Ships use ships as a tool to provide medical treatment for people in need?
(A) Because ships can carry more people than other means of transportation.
(B) Because ships can travel faster than planes.
(C) Because ships can travel to the major cities in the world.
(D) Because ships can carry a large number of goods.
47. Which of the following statements is **NOT** the reason why Mercy Ships is established?
(A) The founder was inspired by the government. (B) The founder has a physically challenged son.
(C) The founder visited Mother Teresa. (D) The founder wanted to offer healthcare to people.
48. Which of the following statements is **NOT** the task Mercy Ships is responsible for?
(A) Building houses for local people. (B) Training local professionals.
(C) Treating patients with eye problems. (D) Teaching locals to keep good sanitation.

第 49 至 52 題為題組

Like owners of gas-powered cars, electric car owners can adopt driving and maintenance habits to prolong the useful life of their vehicles. Simple habits, like not driving a vehicle too hard or rotating the tires regularly, are common to gas-powered and electric cars, but some habits are new and only for electric vehicles, such as optimizing charging habits. The main one is the daily charging limit. Now a battery expert from Tesla, which produced the world’s first ever premium all-electric sedan, makes his recommendation to optimize durability.

Jeff Dahn, a battery researcher and leader of Tesla’s research partnership through his battery-research group at Dalhousie University, has been working on li-ion battery durability for Tesla for a year now. He has been studying the impact of the charge and discharge rates on the lifecycle of Tesla’s batteries. Months ago, Dahn was reported to have created a new battery chemistry that doubles the lifetime of batteries in Tesla’s products four years ahead of

his research.

Historical data from Tesla's current battery packs show about 5% capacity degradation after 50,000 miles (80,000 km) and the capacity levels off for about 150,000 more miles before coming close to hitting 90% capacity. Therefore, these battery packs are good enough, but drivers can still do something to optimize the results. Not charging to a full charge too often comes first. Repeated full charges can negatively impact li-ion battery cells, which is why Tesla recommends charging the battery only to 90% capacity and charging to 100% only when it is needed for long trips. In the past, CEO Elon Musk even recommended 80% daily charging. But if someone wants to really push the optimization to its limit, Dahn suggests going even lower, say, charging to 70% normally. The owners of Tesla can follow their advice to make the battery more durable.

49. Which of the following statements about Jeff Dahn is **NOT** true?
- (A) He is in charge of Tesla's research on enhancing the battery durability.
 - (B) He advises that drivers charge their Tesla to 70% to optimize the battery life.
 - (C) He has successfully created a battery which is four times more durable than the previous one.
 - (D) His partnership with Tesla has been lasting for one year.
50. What can we infer from the historical data of Tesla's current battery packs?
- (A) They decline to 5% capacity after drivers have driven the car for 150,000 miles.
 - (B) They degrade to 90% level after having been used for 150,000 miles.
 - (C) They reduce 10% capacity after having been in use for 80,000 kilograms.
 - (D) They have 10% degradation after Tesla has been driven for 200,000 miles.
51. With which of the following statements would the author most likely agree?
- (A) Changing the tires on a regular basis is the best way to maintain Tesla.
 - (B) Tesla is the first ever hybrid car in the world.
 - (C) The schedule of the project implemented by Jeff Dahn lags behind.
 - (D) Not charging the battery to a full charge often will slow down the capacity reduction.
52. What's the best title for this passage?
- (A) Tesla, a Cutting-edge Model with Sustainable Battery
 - (B) The Battery Charging Time: Not As Essential As Expected
 - (C) The Daily Charging Limit Optimizing Battery Durability
 - (D) The Recommendation of Battery Experts to Have a Full Charge Every Day

第 53 至 56 題為題組

On 15 September 2017, NASA's Cassini spacecraft fell silently into the atmosphere of Saturn on a historic and suicidal cruise. Its 20-year mission has brought our understanding of the solar system to a new level. Cassini sent home more than 25 million spectacular images of Saturn and its satellites.

Over a decade of orbiting the gas planet, Cassini studied the composition and temperature of Saturn's upper atmosphere there. Before Cassini, scientists viewed Saturn's distinctive features only from Earth and from some spacecraft passing by. Compared to Earth, Saturn is seven hundred times the volume of Earth. Its core is considered to be only a bit larger than our planet. The remaining part of Saturn's volume is filled with churning gas and compressed metallic hydrogen, mixed with helium and other trace molecules. Saturn is nearly 10 times farther from the sun than Earth and takes much longer to orbit the sun – about 29 Earth years. Moreover, Saturn's axis of rotation is tilted like Earth's, and so it too has seasons, but each season produces longer years that last more than seven Earth years.

Other than distinguished rings, Saturn itself has other irresistible subjects to study, such as storms, jet streams, and its radio and plasma waves, which can't be detected from Earth. With the lengthy stay in Saturn, Cassini uncovers another one of Saturn's strange secrets and magnificent spectacles. Saturn's night side isn't very dark for its rings reflect far more light onto Saturn's night side than a full moon does at Earth.

By the time Cassini dived into Saturn at the end of its mission, it had observed the planet for less than half of a Saturn year. It had also orbited the gas giant 293 times, forever changing our understanding of the Saturn system and thus yielding an insight into the entire solar system.

53. What is the passage mainly about?
- (A) The wonderful pictures Cassini has photographed.
(B) Saturn is a mysterious and fascinating planet.
(C) NASA's successful and long-term space project to Saturn has paid off.
(D) The volume of Saturn contains more mixed gas than its hard core.
54. What happened to Cassini in the end?
- (A) It returned to Earth after it finished its mission. (B) It dived into Saturn at the end of its journey.
(C) It would orbit Saturn forever. (D) It stayed put as a satellite of Saturn.
55. Why is Saturn's night side bright?
- (A) Because Saturn's rings reflect more light onto Saturn's night side.
(B) Because Saturn produces radio to reflect lightning in the dark.
(C) Because Saturn sends plasma waves to reflect lightning.
(D) Because Saturn reflects storms from the sun.
56. Which of the following statements is **NOT** true?
- (A) The span of Cassini's journey lasts 20 years.
(B) Saturn is seven hundred times larger than Earth.
(C) Each season on Saturn is equal to more than seven Earth years.
(D) Saturn does not rotate on its own axis.

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。

- 隨著人工智慧的快速發展，機器人已經被廣泛使用在各種領域。
- 機器人不僅可從事危險的工作也可以滿足老人的需求。

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：你在網路上幫好友 Cindy 訂製了一個生日蛋糕，打算給她一個驚喜。你訂製了 A 款，卻收到樣式和口味截然不同的 B 產品，你很生氣對方搞錯。除此之外，還有其他問題。請你以 Dear Customer Service 開頭，寫一封投訴信。第一段寫出對方除了樣式和口味外，還犯了哪些錯誤；第二段請明確寫出你的要求，說明希望對方如何善後和改進。請用 Kevin/Kelly 署名，切勿用自己的真實中文或英文名字。

