

第一部分：選擇題(60分)

一、綜合測驗

說明：下面三篇短文共有 15 題，每篇各有 5 題，為第 1-15 題，每題 2 分，共 30 分，請依短文文意，選出一個最適合該空格的答案。

▲閱讀下文，回答第 1-5 題

Sanitary products like period pads contain poisons and pollutants which leave a bad impact on both human bodies and the environment. Most people think pads are mainly made of cotton, but even this seemingly natural material can cause some problems. When cotton is used, it is first 1 pesticides and then bleached. What's more, superabsorbent polymers (SAPs) are used to stop the pads from leaking. However, these synthetic materials negatively 2 people's immunological, reproductive, and hormonal systems, among other things. 3, the substances used in period products are not regulated, so you never really know what you're putting on your body. It's not healthy for you to have all of these dangerous ingredients pressed up against your sensitive skin.

From an environmental standpoint, pads contribute significantly to landfill garbage. Almost 12 billion pads are thrown into US landfills each year. The majority of pads are made up of plastic, 4 wrapped in plastic before being packaged once again in plastic which never decomposes. By contrast, sustainable sanitary products are more environmentally friendly and also more 5. Reusable sustainable solutions are more practical for people on tight budgets, because they last for around five years or longer when properly cleaned and cared for. This is especially helpful for some people who cannot afford the monthly costs of period pads.

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|----------------------|------------------|-------------------|------------------|
| 1. (A) controlled by | (B) suspended in | (C) inflated with | (D) treated with |
| 2. (A) affect | (B) absorb | (C) distribute | (D) command |
| 3. (A) Additionally | (B) Indeed | (C) Conversely | (D) Subsequently |
| 4. (A) alternatively | (B) exclusively | (C) individually | (D) explicitly |
| 5. (A) formidable | (B) economical | (C) intimate | (D) secure |

▲閱讀下文，回答第 6-10 題

A HIIT workout is a combination of short bursts of intensive activity with rest intervals of lower intensity exercise, which makes it a very efficient way of exercising. HIIT became popular a decade ago when exercise physiologists began to 6 studies proving that interval workouts might produce the most health improvement in the shortest time. The New York Times made the seven-minute workout famous in 2013, and the one-minute workout emerged in 2016.

This type of workout commonly lasts 10 to 30 minutes. Although brief, it nonetheless has many health advantages. The workout could involve sprinting, riding, jumping rope, or other bodyweight activities. For instance, a HIIT exercise on a 7 bike would first involve 30 seconds of high-intensity pedaling, followed by several minutes of easy, leisurely cycling. 8, you would repeat this 4-6 times in one workout.

Interval-based exercises are now readily available. In a recent study 9 the American College of Sports Medicine, fitness experts named HIIT one of the top fitness trends for 2020. They frequently claim that they can 10 energize the body and burn fat very quickly. This type of high intensity interval training may be psychologically and physically taxing, so it's more helpful to do some more steady-paced workouts now and again. However, it's the most effective method of training for individuals who are really time-pressed and can tolerate interval training.

6. (A) carry out (B) release from (C) launch out (D) give off
7. (A) sturdy (B) stationary (C) splendid (D) spontaneous
8. (A) Normally (B) Neutrally (C) Notably (D) Nevertheless
9. (A) that published (B) was published by
(C) published by (D) which were publishing
10. (A) metabolically (B) contagiously (C) diligently (D) eligibly

▲閱讀下文，回答第 11-15 題

Charles was formally crowned king on Thursday, September 8, 2022, following the passing of Queen Elizabeth II. 11, the coronation will not happen anytime soon as it is customary to wait until there has been enough time for grief to pass before crowning the new monarch. The ceremony's planning also involves a lot of preparation and the coronation will be the 12 peak of King Charles' accession to the throne. The coronation is unlikely to take place anytime soon. Queen Elizabeth came to the throne in February 1952, but she wasn't crowned until June 1953.

The coronation has 13 in Westminster Abbey for the past 900 years. William the Conqueror was the first monarch to be crowned there, and Charles will be the 40th. The Archbishop of Canterbury will 14 this Anglican religious ceremony. At the conclusion of the ceremony, he will bestow Charles with St. Edward's Crown, a solid gold crown made in 1661. Based on the British tradition, the king only wears this crown at the moment of coronation. Unlike royal weddings, the coronation is a state event; the government finances it and ultimately determines the guest list. 15 this ceremony will be less formal, less expensive and more intimate than Queen Elizabeth II's coronation, it will still be quite an event.

11. (A) Fortunately (B) However (C) Meanwhile (D) Also
12. (A) moderate (B) beneficial (C) symbolic (D) destructive
13. (A) broken off (B) popped into (C) made sense (D) taken place
14. (A) appoint (B) conduct (C) hail (D) press
15. (A) Although (B) If (C) Since (D) Yet

二、閱讀測驗

說明：下面三篇短文共有 15 題，每篇各有 5 題，為第 16-30 題，每題 2 分，共 30 分，請閱讀短文後，選出最適當的答案。

▲閱讀下文，回答第 16-20 題

Movie superheroes like Batman and Spider-Man soar through the air in cutting-edge outfits that blend clothing and computer technology. Although the dream for regular people to experience that heroic style of clothing may come true, it probably won't happen anytime soon. Currently, the most fundamental function of clothes is **to shield us from the elements**. Because of advances in textile technology, clothing nowadays is able to absorb moisture, keep us warm, fight germs, withstand water droplets, block ultraviolet radiation, conduct electricity, and even emit light. So, with these ever-expanding options, how can we imagine the future of clothing?

Making clothing into wearable computers might be one option. What if textiles and computers were merged to produce smart textiles? According to Shen Chien-lung, deputy head of the Department of Products at the Taiwan Textile Research Institute (TTRI), “The idea behind smart textiles is to turn clothes into wearable computers through modular design.” Taiwan is a global leader in the textile industry and has contributed to this endeavor since 2003 when the TTRI began to use **initiatives** to encourage local businesses to create smart textiles. Moreover, in 2022, Taiwan is a pioneer in the sectors of electronics, information, and communications technology. (_____)

The research and development for smart clothing follow a different logic than that of conventional textile goods. In addition to creating new items, the smart clothing industry aims to integrate hardware (clothes) with software (algorithms) and applications (medical care). All three need to be integrated at once since the actual purpose of smart clothing is to solve specific issues. One researcher described himself as a dreamer, rather than a specialist in several disciplines, working to make dreams come true by manipulating fabrics.

16. How would you describe the research and development of smart clothing in Taiwan in the 21st century?
- (A) It is prosperous.
 - (B) It is stagnant.
 - (C) It is shrinking.
 - (D) It is uncertain.
17. Which of the following has the closest meaning to the word “**initiatives**” in the second paragraph?
- (A) administrators
 - (B) competitions
 - (C) measures
 - (D) demands
18. Which of the following statements can best fit in the blank of the second paragraph?
- (A) As we can see, the Taiwanese economy is prospering globally in recent years.
 - (B) The introduction of smart technology clothing has never taken off in Taiwan.
 - (C) Taiwan is not suited to advancing research into smart clothing for a number of reasons.
 - (D) Hence, Taiwan is ideal for the development of smart textiles in many key sectors.
19. According to the passage, what will smart clothing do in the future?
- (A) Soon, like the superheroes in films, we will be wearing clothes that enables us to fly.
 - (B) The clothing industry will move into the smart age and be applied in the medical field.
 - (C) Technology will advance, and medical issues like cancer will be resolved through clothing.
 - (D) Like other clothing development, textiles will mainly be used to protect us from extreme weather.
20. What is the best interpretation of the phrase “**to shield us from the elements**” in the first paragraph?
- (A) To safeguard people’s possessions.
 - (B) To protect people from various viruses.
 - (C) To protect people from the weather.
 - (D) To take care of something.

▲閱讀下文，回答第 21-25 題

Cow's milk is a fantastic food source as it is rich in protein, vitamins, and minerals, all essential for maintaining good health. But not everybody can drink cow's milk. Many people experience painful digestive issues as a result of an allergic response to it. As part of a vegan diet, an increasing number of people have also decided not to consume cow's milk.

Non-dairy milk manufactured from plants is now much more readily accessible. To prepare these plant-based milks, the nuts, grains, or legumes must first be softened by soaking them in water for a long time. Then, they are combined to create a slurry, which is filtered to get rid of any solids. This "milk" is finally cooked to make sure it is sterile. Many plants can be "milked" this way, but almonds, soybeans, oats, coconuts, and peas are the most popular.

Many people who used to only drink cow's milk now turn to plant-based milks because they are promoted as healthier options. Although plant-based milks can be a component of a balanced diet, they are not always better for one's health. In fact, some companies sweeten or flavor-enhance their plant-based milks by adding a lot of sugar and other ingredients. Many also lack the essential nutrients and vitamins that cow's milk naturally contains. Therefore, it's crucial to carefully review the nutritional data before choosing which kind of milk to purchase. The most common varieties of milk that you could get at your neighborhood grocery are compared in the table below.

Nutrition Facts for Different Types of Milk (every 100 g)						
	Cow's Whole Milk	Oat Milk	Pea Milk	Soybean Milk	Coconut Milk	Almond Milk
Calories	80-150	120	70-100	110	40-80	30-90
Protein	8 g	4 g	7 g	8 g	0 g	1 g
Fats	8 g	5 g	4.5 g	4-5 g	4-5 g	2.5 g
Carbohydrates	12 g	16 g	6 g	6 g	0 g	0 g
Other Nutrients	Ca, P, K, Vit.D, Vit.A, Vit.B12	Ca, Vit.D, Vit.A, Vit.B12	Ca, K, Vit.D, Omega 3s	Ca, P, K, Vit.D, Vit.B12	Ca, Vit.D, Vit.A, Vit.B12	Ca, Vit.D, Vit.E, Vit.B12

Notes: Ca- Calcium / P-Phosphorus / K-Potassium

21. Look at the chart and organize the milk substitutes based on their protein levels. (① is the highest and ④ is the lowest).
- (A) ① Soybean Milk ② Pea Milk ③ Almond Milk ④ Oat Milk
 (B) ① Soybean Milk ② Almond Milk ③ Pea Milk ④ Almond Milk
 (C) ① Soybean Milk ② Pea Milk ③ Oat Milk ④ Almond Milk
 (D) ① Pea Milk ② Oat Milk ③ Coconut Milk ④ Almond Milk
22. What is the second paragraph mainly about?
- (A) Why alternative milks are good substitutes for cow's milk.
 (B) Proof that cow's milk is not as healthy as non-dairy milk.
 (C) Reasons why people choose to drink milk substitutes.
 (D) Explanation of how to process milk substitutes.
23. Based on the passage and the chart, which of the following statements is **NOT** true?
- (A) There is no real substitute for cow's milk.
 (B) Soybean and pea milk both have 6g of carbohydrates per 100g.
 (C) Soybean and coconut milk have similar amounts of fat.
 (D) Pea milk will be one's top choice if the person is on a diet.

24. According to the passage, why do people believe plant-based milks are healthier than cow's milk?
- (A) Plant-based milks are more readily available than they were.
 - (B) Plant-based milks are marketed as being healthier.
 - (C) Vegetarian cuisines are more suitable for religious people.
 - (D) Plant-based milks have additives to improve their health value.
25. Based on the article, how do you make almond milk?
- (A) First you soak almonds and then blend them. Next, you clarify the mixture and then heat it.
 - (B) First you clarify and then blend almonds before soaking them. Finally, you heat the mixture.
 - (C) First you blend and then soak almonds. Next, you heat and clarify them.
 - (D) First you soak almonds and then clarify them before blending, and then heat them.

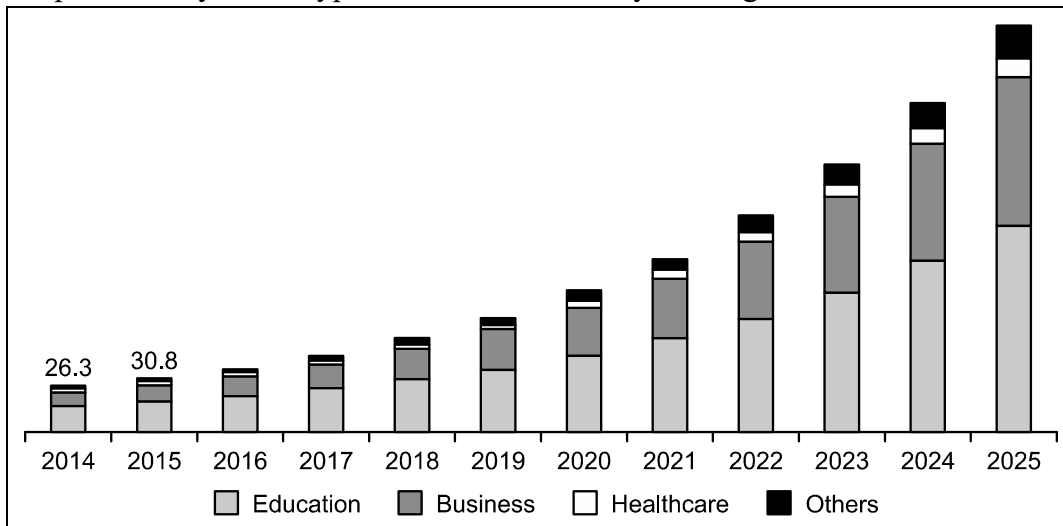
▲閱讀下文，回答第 26-30 題

You and your family spend hours enjoying TV programs, streaming movies, and learning or doing work on screens. If you are thinking about your health, especially your eyes, there are some things you may want to consider when using these screens.

At work, school, and home, we stare at screens for extended periods of time. TVs are typically the largest displays we have, and they generate a lot of blue light. Our health is negatively impacted by blue light, especially at night. The average adult in the US watches TV for over 4.5 hours a day. Digital eye strain brought on by blue light can result in impaired vision, poor concentration, dry and itchy eyes, headaches, and neck and back pain. Long-term consequences also reveal that prolonged exposure to high amounts of blue light may harm the retina and result in irreversible vision loss.

Although projectors also emit blue light, you aren't looking directly at the light source while watching the screen, so your eyes aren't directly exposed to it. Before reaching your eyes, the light bounces off a wall or projection screen. This surface absorbs part of those harmful wavelengths, lowering the amount of blue light that actually reaches your eyes. Overall, projectors are significantly safer for viewers' eyes, as they lessen the impact of blue light and direct light. ()

Projectors are also great for educational purposes. The use of internet-based teaching in the education sector led to an increase in its market size. Students are choosing to get their degrees and information via digital education, paving way for the market of projectors to experience significant expansion. Demand for projectors is also expected to be influenced by the corporate sector's increase in online training. E-learning with projectors enables businesses to reduce training expenses while increasing staff productivity and a byproduct of this is less eye damage!



26. Choose the most appropriate sentence to complete the third paragraph.
- (A) TVs will beat projectors by a mile in the near future.
 (B) Please continue reading to find out more about TVs.
 (C) If you are considering buying a TV, now is the time to make that investment.
 (D) In contrast to TVs, it is apparent that projectors are much better for eye health.
27. Why are projectors better for your eyes than other screens?
- (A) They emit blue light to make a better resolution of the picture.
 (B) Your eyes can absorb the blue light emitted from projectors.
 (C) The blue light emitted from projectors doesn't directly hit your eyes.
 (D) Walls and other surfaces bounce the blue light so you have direct contact with it.
28. What can we learn from the bar chart?
- (A) When people shop for projectors.
 (B) Which industries use projectors the most.
 (C) What brand of projectors is most popular.
 (D) How many advantages projectors have.
29. Look at the chart. What does 'Others' refer to?
- (A) Projectors coming in other sizes.
 (B) Projectors with other promotions.
 (C) Projectors used by people of other ages.
 (D) Projectors used in other areas.
30. Refer to the bar chart and the passage. Why is education a driving force behind the sales of projectors?
- (A) More and more people are learning from home for free.
 (B) E-learning is more important than school education.
 (C) The governments keep funding internet-based businesses.
 (D) Businesses and schools show great demands for online training.

第二部分：非選擇題(40分)

一、翻譯測驗(第 1-4 題，每題 4 分，共 16 分)

(一) 中譯英(8 分)

說明：請將以下短文中劃底線處之中文句子譯成正確、通順、達意的英文，並將答案寫在「答案卷」上。請依序作答。每題 4 分，共 8 分。

NFT-「非同質化代幣」(Non-fungible tokens, NFTs)，是區塊鏈上的一種紀錄，可用來儲存數位檔案資料，例如頭貼、音樂、遊戲角色，甚至推文都可以。(1) 此外，NFT 也包含了創建、購買、以及將這個檔案連接到區塊鏈(the blockchain)的人之所有紀錄。NFT 近來無所不在，臺灣也刮起了 NFT 炫風，其幣圈衍生出的無聊猿猴遊艇俱樂部(The Bored Ape Yacht Club)，也跟著水漲船高。(2) 因為獨特與名人加持，在虛擬世界裡持有無聊猿，不但代表時尚，也代表個人的財富、地位與聲望。

