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I. **Vocabulary (30%)** Choose the best answer for each question and write the corresponding letter on the answer card. 選擇題請在答案卡上作答，否則不予計分

1. Many people doing extra jobs outside their regular jobs to _____ their incomes.
(A) supplement (B) restrict (C) presume (D) intervene
2. An independent advisor has been brought in to _____ between the unions and the employers.
(A) legislate (B) conciliate (C) participate (D) subordinate
3. They are assigned to a parking lot _____ to the stadium and are allowed its use free of charge.
(A) consequent (B) adjacent (C) ultimate (D) dominant
4. Our new supervisor wants us to take the _____ in trying to solve the problem.
(A) compliment (B) empiricism (C) practitioner (D) initiative
5. Minerals can be absorbed and _____ by the body in a variety of different forms.
(A) utilized (B) assessed (C) inferred (D) distorted
6. To ease financial difficulties, farmers could be _____ for their loss of subsidies.
(A) diminished (B) exploited (C) compensated (D) simulated
7. Mary's job will be kept open for her return after _____ leave.
(A) successor (B) maternity (C) conceivable (D) external
8. Many developing countries are already battling to _____ malaria and other major diseases.
(A) illustrate (B) fluctuate (C) eradicate (D) penetrate
9. Like most other international companies with a rigid _____, workers and managers had strictly defined duties.
(A) academy (B) commodity (C) infrastructure (D) hierarchy
10. Financial _____ are in monetary form and help in motivating the people for better performance
(A) incentives (B) controversies (C) enormities (D) ministries
11. The increase in pay costs was hugely _____ by higher productivity.
(A) retrieved (B) engaged (C) sought (D) offset
12. To use a sporting _____, middle age is like half-time at a football match.
(A) termination (B) incident (C) analogy (D) contrast
13. Government officials visited the earthquake zone on Thursday morning to help _____ the emergency supplies.
(A) deviate (B) coordinate (C) anticipate (D) impose
14. The first stars began to form when hydrogen and helium gas left over from the Big Bang _____ into dense clouds.
(A) aggregated (B) conducted (C) immigrated (D) prohibited

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15. The victim's wife made an emotional public appeal on her husband's _____.
- (A) context (B) erosion (C) affect (D) behalf

II. Grammar (20%)

16. Jason is very good at swimming, _____ his younger sister does not even dare to go near a swimming pool.
- (A) while (B) because (C) in spite of (D) after
17. You should not underestimate her achievement. It _____ a lot of efforts _____ a new company.
- (A) take ... establishing (B) have taken ... to establish (C) takes ... to establish
(D) taking ... establish
18. This book is centrally _____ the history of England. You should read it if you are interested in knowing what happened in England in the 15th century.
- (A) concerned to (B) concern (C) concerned with (D) concerns
19. _____ experience different cultures all her life, she was thrilled to find that a foreign company offered her a chance to work abroad.
- (A) Want to (B) Having wanted to (C) She wants to (D) Wanted to
20. This is an international city _____ you can meet people from different countries.
- (A) when (B) which (C) where (D) who
21. _____ delights her parents most is her decision not to give up easily.
- (A) What (B) How (C) Why (D) That
22. _____ people fall ill do they realize the value of health.
- (A) Until (B) Until not (C) Not because (D) Not until
23. We need your approval urgently. Please respond to our e-mail _____ soon _____.
- (A) as ... as can you (B) as ... as possible (C) as ... as possibly (D) as possible ... as
24. _____ was the entrance exam, _____ only ten percent of all participants passed it.
- (A) So difficult ... that (B) So easy ... that (C) So difficult ... if (D) So easy ... if
25. The manager had a serious argument with him yesterday. But ten minutes ago they walked in the office together happily, _____ nothing had happened.
- (A) as (B) as long as (C) as if (D) as such

III. Reading Comprehension 20% Choose the best answer for each question.

Passage 1

RoboScience, a UK company specializing in commercial robotic technology, recently launched its RoboDog - the world's most powerful, most advanced and largest commercial legged robot. A small team of highly-skilled

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specialists created the RoboDog in only seven months using a state-of-the-art computer-aided design tool. Technical and design breakthroughs made during the creation of this remarkable new robot will form the platform for next-generation lightweight robots.

Mark Oates, the co-founder and marketing director of RoboScience said, "All legged robots now for sale are nothing more than entertainment. This is an advanced computer in animal form - it's history **in the making**. We have done what was thought impossible - creating a robot that is light and strong, yet large enough to show the true potential of legged robotics that are genuinely useful to human life." The RoboDog will be sold as a hand-made limited edition product tailored to the customers' requirements.

The RoboDog is the size of an adult Labrador and is powerful enough to raise itself from the ground carrying a five-year old child. Its sophisticated motor capabilities and balancing software allow it to climb obstacles and perform handstands, and its motion and color detection sensors enable it to find and kick a football. It connects to the Internet via a wireless network, and can be controlled from a PC. It can also recognize sixty oral commands.

The manufacturers intend to license elements of the RoboDog technology to companies in fields as diverse as industrial automation, special effects, security and military services. For companies struggling with the limitations of current robotic technology, this can be the solution. The creation of RoboDog also proves that legged robots can now have the size and power to perform in high-risk environments, whether that is a power station or a mine-field.

26. What is this reading mainly about?
- (A) The benefits of robots to the environment
 (B) The creation of robotic pets in human life
 (C) The power of computer in next-generation robots
 (D) The new development in commercial robots
27. What is the purpose of the second and third paragraphs?
- (A) To illustrate how RoboDog can help create new forms of entertainment
 (B) To show the capability of RoboDog in performing complex tasks
 (C) To give examples of the increasing popularity of RoboDog
 (D) To explain why RoboDog is useful in providing high quality child care
28. Which of the following is closest in meaning to the phrase "**in the making**" in the second paragraph?
- (A) Tailoring to
 (B) Cutting-edge
 (C) Importing
 (D) Taking place
29. After which paragraph would the following sentence best be placed? *After all, the loss of a robot is an inconvenience; the death of a human being is a tragedy.*
- (A) The first paragraph
 (B) The second paragraph

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(C) The third paragraph

(D) The last paragraph

30. Which of the following feature about RoboDog is NOT mentioned in the passage?

(A) Generating electricity for power stations

(B) Following numerous voice commands

(C) Moving and balancing on its front feet

(D) Climbing and lifting heavy weights

Passage 2

As we roll into 2019, many people will be trying out new diet plans. For many of us, sticking to a nut-filled, burger-free, fish-heavy Mediterranean-style diet will only last a matter of days before we return to the realms of cheesecake and cheese boards. Though eating right over the long-term reduces the risk of cardiovascular problems, we know much less about how a fluctuating dietary plan impacts our heart health.

A research team from Purdue University in the U.S. set out to investigate the effect of fluctuating food habits on markers of cardiovascular disease. To investigate, the scientists inspected data from two previous studies into dietary interventions carried out by the same group of researchers at Purdue University. The participants of these studies followed one of two healthy eating patterns, both of which were rich in fruits, vegetables, and whole grains. Participants followed the eating patterns for 5 or 6 weeks. After this period, the scientists assessed their cardiovascular risk by measuring a range of parameters such as blood pressure and levels of fats. Following the 5–6 weeks of dieting, participants went back to their standard eating patterns for a further 4 weeks. Then, after another cardiovascular assessment, they were restarted on the healthy dietary plans for an additional 5–6 weeks. Finally, they had one more checkup at the end of this period.

The analysis showed that, as expected, the cardiovascular markers improved when the individual stuck to the healthy diet. Then, once they had returned to a less healthful eating regime, the biomarkers became less favorable again. Then, once the healthful diets were restarted, the metabolic markers once again improved. Overall, the results are bittersweet; they show that just a few weeks of dietary change can produce measurable improvements in health markers. On the flip side, after just a few weeks following the abandonment of a new diet, those benefits are lost. However, if a person restarts their healthful eating plan, the benefits can be won back in the same short amount of time.

More research will be needed to explore whether yo-yo dieting has an impact on long-term health. Some studies have shown that losing and gaining weight again in a cycle, or weight cycling, could cause stress to the cardiovascular system. However, the evidence is certainly not overwhelming, and some scientists question whether weight cycling has any adverse effects at all.

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31. What is the best way to summarize the reading passage?
- (A) The health benefit of a Mediterranean-style diet
 (B) The challenge of sticking to a strict eating pattern
 (C) The effect of diet changes on cardiovascular health
 (D) The adverse impact of weight cycling and stress
32. According to the passage, how did the scientists determine the improvement of the participants' health?
- (A) By examining a number of bio parameters
 (B) By inspecting the types of food they consumed
 (C) By measuring their changes in body weight
 (D) By identifying the dietary interventions they received
33. Which of the following is closest in meaning to the word "standard" in the second paragraph?
- (A) High-quality
 (B) Ordinary
 (C) Controlled
 (D) Wholesome
34. Which of the following statement is true about the new study described in the passage?
- (A) It supports the abandonment of the meat-free and nut-filled diet.
 (B) It indicates that fluctuating eating patterns may have health benefits.
 (C) It involved two previous teams of researchers at Purdue University.
 (D) It shows that the amount of time devoted to a new diet is a crucial factor.
35. What is the main idea of the last paragraph?
- (A) The concept of yo-yo dieting has been questioned by many researchers.
 (B) More evidence is needed to support the negative effects of weight loss.
 (C) Future research needs to focus on the impact of stress on the cardiovascular system.
 (D) The issue of how changes in dietary patterns affect heart health remains unresolved.

IV. Composition (30%)

What do you think is the most difficult problem facing young people in Taiwan nowadays? Please write **two paragraphs** in response to this question. In the first paragraph, please describe this problem. In the second, please offer potential solutions to it.

備

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- 一、作答於試題上者，不予計分。
 二、試題請隨卷繳交。