1. The first 24 hours after an earthquake strikes are ______ for rescue operations.
   (A) crucial  (B) insane  (C) practical  (D) reckless

2. A dictionary of mechanics terms is a handy ______ for students majoring in mechanical engineering.
   (A) movement  (B) triumph  (C) landscape  (D) reference

3. Jeremy Lin was once a ______ in New York Knicks, who didn’t play many matches before February 11.
   (A) slam dunk  (B) assistant coach  (C) forward  (D) benchwarmer

4. She is thinking of working for a multinational ______ where everything is so challenging and impersonal.
   (A) portfolio  (B) admiration  (C) corporation  (D) construction

5. Hakka ______ tea, a sign of respect to invite people over to the house, has also been used in tea ceremonies.
   (A) spice  (B) jasmine  (C) ground  (D) organic

6. To have a better life, the government needs to ensure that all development is environmentally ______.
   (A) inhaled  (B) sustainable  (C) capable  (D) outrageous

7. The retiring tennis player had a(n) ______ career, having garnered 10 Grand Slam titles.
   (A) remarkable  (B) faithful  (C) aboriginal  (D) identical

8. Couch Surfing, usually ______ as CS, offers a great way for budget conscious travelers to travel the world in a less expensive way.
   (A) abbreviated  (B) lengthened  (C) knew  (D) became

9. Is against copyright laws to put any work or idea to commercial use without the ______ of its creators.
   (A) information  (B) shipwreck  (C) permission  (D) hesitation

10. It is reported that each person in Taiwan, on average, produces 10.89 tones of carbon ______ a year.
    (A) emissions  (B) popularity  (C) entertainment  (D) recognition

11. Google has had several logos. These special logos, some designed by Dennis Hwang, have become known as Google ______.
    (A) Mascots  (B) Dimensions  (C) Transformers  (D) Doodles

12. She ______ pursuing her dream of being a dancer despite her parents’ objection.
    (A) benefited from  (B) persisted in  (C) act on  (D) opposed to

13. A growing concern over online ______ makes the Facebook far harder to exploit the mountains of data it is collecting.
    (A) principle  (B) platform  (C) property  (D) privacy

14. The chart shows how weight increases ______ height (= the increase in weight depends on the increase in height).
    (A) by and large  (B) in response to  (C) in proportion to  (D) in charge of

15. Most of the working holiday visas last for one year, and the jobs travelers can get ______ picking fruit or working in a hotel to volunteering at a museum.
    (A) break off  (B) account for  (C) range from  (D) derive from

16. Bollywood movies ______ people in many areas of the world that have been populated by Indians as well as people with diverse cultural backgrounds.
    (A) set aside  (B) contribute to  (C) appeal to  (D) concerned with

17. The fastest rate of growth is not ______ economic stability.
    (A) consistent with  (B) equipped with  (C) counting on  (D) defined as

18. Life is difficult for those who cannot see. Although Ricky lost his sense of vision, he ______ for it with his hearing and voice.
    (A) puts away  (B) takes in  (C) tracks down  (D) makes up

19. In a poll taken two weeks after the new garbage disposal plan ______, over two-thirds of the residents expressed their discontent.
    (A) to take place  (B) taking effect  (C) to take risks  (D) taking offense

20. Four days after Titanic set out on its maiden ______ on April 10, 1912, the ship hit an iceberg and sank in less than three hours.
    (A) destination  (B) voyage  (C) flight  (D) volume
II. Grammar (文法) and Dialogue (對話): 10% 每題 2 分，請選出一個最適當的答案

21. _______ to the university, all international students must pass an English proficiency test.
   (A) By having admitted (B) Before having admitted
   (C) By being admitted (D) Before being admitted

22. Little League Baseball is a nonprofit organization _______ organized baseball and softball programs for young people between the ages of 8 and 18.
   (A) provided (B) that provide (C) provides (D) providing

23. Presenter: The next slide shows sales over the past six months.
   Manager: _______
   Presenter: Yes, we did.
   Manager: Any idea what caused this drop in sales?
   (A) Gee! We hit quite a slump. (B) Anything I can do to help.
   (C) Let’s take a break first. (D) That was a good thing.

24. Peter: What do you think about the applicant?
   Lucy: Well, _______
   Peter: What do you mean?
   Lucy: Personally, I feel she’s ready for a higher position than this one.
   (A) I don’t think she’s qualified. (B) I don’t think she’s good looking.
   (C) I think she’s overqualified. (D) I think she fits this job.

25. Sandy: Mom, can you lend me your laptop?
   Mom: Why? Doesn’t your computer run faster?
   Sandy: That’s true, but I need to do a project with my classmates at school.
   Mom: Ok, _______
   (A) But, why are you blaming me? (B) Just don’t break it, please.
   (C) They should run faster. (D) I appreciate your help.

III. Cloze Test (充漏子測驗): 20% 每題 2 分，請依文意選出最適當的一個選項

i. 第 26 至 28 題為題組

   Angry Birds was first ______ for the iPhone in December, 2009. In one year, the game boasted over 42 million downloads, with thirty percent being paid for. The popularity ______ the game’s Finnish designers to create the same game for Android smartphones and the iPad. In total, Angry Birds has been downloaded over 250 million times. This success ______ the next step in game technology—going from TVs and personal computers to smartphones and tablets. All in all, fewer and fewer people are going to stores to buy video games. Now, they can just download them straight to their phones wherever they are.

   26. (A) organized (B) released (C) focused (D) indicated
   27. (A) addicted (B) stirred (C) squeezed (D) encouraged
   28. (A) represents (B) escapes (C) requires (D) exposes

ii. 第 29 至 31 題為題組

   Groupon, a combination of the words "group" and "coupon", is a deal-of-the-day website that ______ discounted gift certificates and has become one of the biggest success stories the Internet has ever seen. Like most people in Internet businesses, Groupon founder and CEO Andrew Mason had to fail first to succeed. His first Internet start-up, The Point, was well-intentioned but ______ being used for pranks. However, Mason found that customers liked banding together to buy things, so he started a blog that ______ turned into Groupon. For Mason, competition is the least of his worries as he is focused on expanding and becoming the fastest company ever to bring in US$1 billion.

   29. (A) surround (B) measures (C) features (D) distribute
   30. (A) ended up (B) turned out (C) popped up (D) signed up
   31. (A) creatively (B) fluently (C) eventually (D) frequently
iii. 32 至 35 题为题组

Auroras are natural lights displaying in the sky particularly in the high latitude regions. They are caused by the collision of energetic charged particles with atoms in the high __32__ atmosphere. Aurora borealis (also the northern lights) are bands of colored light that are sometimes seen in the sky at night in the most northern countries of the world. They are like beautiful, colorful curtains. However, if you see them at the equator, they are __33__ a sign of a sun storm. In September 1859, these lights were seen as far south as the Caribbean. This storm did no more than cause a few fires. Around that time, a scientist named Richard Carrington __34__ something strange on the Sun. One of the Sun’s spots grew much larger than Earth. This was due to an __35__ that sent large amounts of heat and energy into space and at Earth. His 1863 records of sunspot observations also revealed the differential rotation of the Sun.

32. (A) attitude  (B) altitude  (C) attitude  (D) analogue
33. (A) alike  (B) unlike  (C) likely  (D) likelihood
34. (A) associated  (B) noticed  (C) adapted  (D) admitted
35. (A) abstract  (B) instrument  (C) equation  (D) explosion

IV. Reading Comprehension (閱讀測驗): 20 %，每題 2 分，請根據文意選出一個最適當的答案

i. 第 36 至 38 题为题组

![Green Drinks](image)

36. How much water is needed for the recipe?
   (A) No exact amount is given.  (B) One or two teaspoons
   (C) Enough to fill the blender to the top  (D) As much as your hands can hold

37. What will you need to make this recipe?
   (A) a fork  (B) a knife  (C) a bucket  (D) a pan

38. According to the passage, what can you change about the recipe?
   (A) You can use a variety of vegetables if you want a thicker drink.  (B) You can leave out the celery if you don’t like the taste.
   (C) You can substitute fruit juice for the water.  (D) You can get rid of the mango and use a different kind of fruit.

ii. 第 39 至 40 题为题组

On the last Monday of every May, Americans celebrate Memorial Day, a holiday meant to remember those who lost their lives while serving in the United States Armed Forces over the years. Last year’s Memorial Day had a special significance because it was less than a month after the death of Osama bin Laden, the man who organized the 9/11 terrorist attacks.

The 10th anniversary is also a time to revisit the pain and sorrow of the 9/11 attacks and to remember the nearly 3,000 Americans who lost their lives on that day. Yet, a question that lingers for the US is whether enough is being done to prevent terrorist attacks in the future.

US relations with the religion of Islam have been intense since the 9/11 attacks. It has been difficult for President Obama to show that only Islamic terrorists and not all of Islamic people are a problem for the US. Obama recently declared that religious tolerance is a priority for the US, but not all Americans agree with his goals. As always, the balance between world peace and military power is difficult to achieve.
39. Why was last year’s Memorial Day different?
   (A) A terrorist that was at large for nearly a decade was killed.  
   (B) Bin Laden was captured on this day.  
   (C) The significance of terrorist attacks was understood.  
   (D) The Armed Forces served in the Middle East.

40. According to the final paragraph, what is President Obama trying to do?
   (A) Get more people to convert to the religion Islam.  
   (B) Have Americans believe tolerance is not their No. 1 choice.  
   (C) Let Americans know that not all of those who believe in Islam are terrorists.  
   (D) Make the military stronger so terrorists won’t attack the US anymore.

iii. 第 41 至 42 為題組

   Along with the world’s energy crisis, food is a growing global problem. Nearly one billion people in the world don’t get enough to eat. What’s more, the various natural disasters that occurred in 2010 made matters more complex. Lack of rain in Europe, fires in Russia, and floods in Pakistan all led to rising food costs. In addition, the Earth’s population continues to grow. It is estimated that by 2050, there will be nine billion people. How will everyone be fed if the problem is already so big today with only 6.6 billion people? Therefore, it is urgent that every country needs to take the immediate actions to solve this problem.

41. What is Not mentioned here as a natural disaster?
   (A) A large amount of water  
   (B) Uncontrolled flames  
   (C) A drought  
   (D) Global recession

42. Which of the following statements is WRONG?
   (A) There are fewer and fewer people in the world.  
   (B) Supply of energy is far less than the actual demand.  
   (C) Food sources may not be plenty in the future.  
   (D) Wherever we are from, we should work together to handle food shortage.

iv. 第 43 至 45 為題組

   In the battle of man versus machine, humans might have something to learn from their creations. In 2011, an artificial intelligence (AI) computer system named Watson beat two of the best contestants ever to play Jeopardy!, a popular TV quiz show in the USA. In a two-day tournament against Ken Jennings, who held a record of winning 74 games in a row, and Brad Rutter, who was the show’s all-time money winner, Watson defeated its human competitors. The victory gave IBM, the computer’s creator, a $1 million prize and left humans to wonder about the meaning of Watson.

   During the Jeopardy! game, a video screen represented Watson as an avatar alongside the human competitors. Unlike humans, Watson cannot leave its room at IBM or work without electricity. However, the computer has an enormous advantage in the speed with which it presses the buzzer that contestants use to respond to questions. The participant that buzzes in first is allowed to answer the question, and Watson can buzz in much quicker than humans.

   Watson is actually a collection of many IBM servers connected together to increase the system’s overall power. This “thinking machine” uses its special software that allows it not only to understand human speech but also to precisely respond to questions in a synthesized voice. When asked a question, Watson quickly searches through its vast array of stored knowledge, such as encyclopedias, dictionaries, literary works, and the full texts of Wikipedia. It can process a million books per second and responds based on three most probable answers that it can find in the database.

   Ken Jennings wrote a humorous message on his video screen: “I, for one, welcome our new computer overlords.” However, most analysts agree that Watson’s victory was good for humans. Watson’s success demonstrates that AI system can be built to analyze complex problems and suggest solutions based on intricate patterns, a skill that people can use to solve challenges in various fields such as security, health care, and finance.

43. The article is mainly about __________.
   (A) how IBM developed a new artificial intelligence system to respond to the viewers’ questions  
   (B) how the TV quiz show Jeopardy! became popular in the United States  
   (C) how the thinking machine challenged two human contestants and won the quiz game  
   (D) how the Blue Giant IBM created a voice recognition avatar on the video screen.
44. The phrase “in a row” in the first paragraph means “________.”
   (A) waiting in a line  
   (B) one after another  
   (C) making a loud unpleasant noise  
   (D) in a difficult situation

45. According to the above passage, which of the following statements is NOT correct?
   (A) The creation by the IBM is able to operate on its own without electricity.  
   (B) The Jeopardy! participant who buzzes in first can answer the question.  
   (C) Watson can understand what humans speak and respond to questions in a computer-generated voice.  
   (D) The triumph of Watson shows the AI system can help solve complicate problems in our life!

V. Translation (翻譯) and Writing: 10 % 每題 2 分

第 49 至 50 題，請仔細閱讀每題的四個句子，根據文意連貫，選出排列順序正確的答案。

46. Steve Jobs, one of the co-founders of Apple, is known for his innovation. His vision of bringing digital technology to the masses would eventually transform the world.
   (A) 多元化開發數位科技的心願  
   (B) 將數位科技極致發展的眼光  
   (C) 把數位科技提供給大眾的遠見  
   (D) 把數位科技應用在媒體的先見

47. The newly elected mayor pledged to slash the red tape to help the disadvantaged families.
   (A) 改善財政赤字，協助失業家庭  
   (B) 送出社會经常的大紅包來幫助遭逢不幸的家庭  
   (C) 增加稅金收入，來幫助貧困家庭  
   (D) 簡化官方手續來幫助弱勢家庭

48. 有人以現代化之名，計劃拆除那棟古建築，但遭多人反對。
   (A) 在名義上現代化，計劃拆除老的建築，但許多人都提出反對。  
   (B) 在現代化時代，有許多人都計劃拆除老的建築，但大多數人都同意。  
   (C) 在現代化時代，有些人們計劃拆除老的建築，但大多數人都反對他們。  
   (D) 一些人命名它現代化，拆除老的建築，但大多數人都反對。

49. In order to improve service quality of government organizations, evaluation on their policies and services has been carried out since 2000.
   (1) To conclude, I would like to thank you again for your participation.  
   (2) All the information will be used for research only and all private details will be strictly confidential.  
   (3) On behalf of Marketing and Research Company, which is authorized to execute the evaluation of 2011, I welcome you all.  
   (4) Your opinions are of vital importance!
   (A) 4231  (B) 3421  (C) 1324  (D) 2314

50. Nowadays people tend to consume multiple forms of media simultaneously.
   (1) The heavy media multitaskers were found not able to concentrate, control their memory, or switch among tasks as successfully as the low media multitaskers.  
   (2) That is, they will listen an iPod, send instant messages, check emails and watch an online video at the same time.  
   (3) Therefore, heavy media multitaskers are much easier to be distracted.  
   (4) In a series of three tests for one hundred students to understand the behaviors of multitaskers, some findings were reported.
   (A) 4123  (B) 3124  (C) 3241  (D) 2413

The End! Blank Below. (以下空白)