

- 說明：一、請一律以「答案卷」作答，作答時不得使用鉛筆，違者該科答案卷不予計分；限用黑色或藍色墨水的筆書寫。
- 二、考生應在答案卷上規定範圍內作答，且不得書寫任何與答案無關之文字、符號，違者該科不予計分。
- 三、答案卷以每人一張為限，不得要求增補；試題與答案卷必須繳回，不得攜出試場。

I. Vocabulary. Choose the answer that best completes the sentence. 2 points for each.

1. Endurance is one of the qualities necessary for the welfare and survival of the _____ and society in the animal kingdom.
A. individual B. distinction C. prosperity D. alleviation
2. Oils were used instead of water in magnetic compass to _____ compass disk from erratic movement.
A. benefit B. stabilize C. transmit D. associate
3. The prediction from _____ suggested that many low-lying islands may be under water in the near future.
A. psychologist B. biologist C. physicist D. meteorologists
4. The finding of the DNA from a _____ called Plasmodium Falciparum confirmed that Tutankhumun's mummy suffered from malaria.
A. paradise B. pattern C. parasite D. parcel
5. Marriage is a life-long commitment which requires _____ and may be catalyst for personality change.
A. condition B. consistency C. correspondence D. indifference
6. Acupuncture has been practiced throughout the world and become one of the _____ disease-treating techniques.
A. mainstream B. massive C. sophisticated D. reasonable
7. People who suffer from _____ can neither read nor write. They mutter when speaking.
A. aphasia B. anesthesia C. dyslexia D. synesthesia
8. "The Oprah Winfrey Show" often shined light in the darkest corners of _____ like sexual abuse and racism.
A. services B. subjects C. subjectivities D. saveregs
9. The United States has legalized an export _____, effectively barring US companies from doing business with Huawei.
A. bound B. bulk C. bench D. ban
10. Lukla is the small town best known for being the _____ to Mount Everest.
A. gallery B. garnish C. gateway D. garage

II. Cloze. Choose the answer that best fills in each blank. 2 points for each.

How tornadoes form and how they die is not fully understood, 11 scientists probing those mysteries—and aiming to improve warning systems—have pinpointed key risk factors. A tornado, or twister, is a violently rotating column of air that extends between the Earth's surface and a cloud, usually a cumulonimbus cloud. Large tornadoes usually 12 longer—around 30 minutes. The most powerful twisters have wind speeds of more than 300 miles (483 kilometers) per hour, which can rip buildings off their 13. Tornadoes kill an average of 60 people a year in the U.S., mostly from flying or falling debris.

Tornadoes have been observed on every 14 except Antarctica. They have been most documented in North America, where an estimated 1,200 strike the United States each year, but they frequently appear in many other countries. The most 15 affected region in the United States, called "Tornado Alley," includes the Great Plains states of Kansas, Nebraska, and the Dakotas, as well as parts of Texas. Large-scale weather patterns tend to converge on that area, making tornadoes more likely.

11. A. or B. so C. yet D. nor
12. A. last B. lead C. live D. leave
13. A. fundamentals B. foundations C. functions D. facilities
14. A. construction B. completion C. community D. continent

15. A. notoriously B. necessarily C. numerously D. narrowly

III. Grammar. Choose the answer that best completes the sentences. 2 points for each.

16. _____ the controversies and questions he is facing in the U.S., Donald Trump received a royal welcome in Saudi Arabia.
A. On the other hand B. Consequently C. In contrast to D. On the whole
17. Turkey is a country known _____ its beautiful beaches.
A. for B. in C. of D. as
18. The Trident Underwater Drone, designed by California-based manufacturer, _____ users to pilot an underwater remotely-operated vehicle down to depths of 100m.
A. which allowing B. allows C. that allows D. allowing
19. _____ at the front of the line, astronaut Neil Armstrong heads for the van to the rocket for launch at NASA's Kennedy Space Center.
A. Wave B. Who waves C. That waving D. Waving
20. In the past, LinkedIn was often discounted as a worthwhile platform _____ a lack of active users.
A. because B. due to C. however D. since
21. The National Safety Council has been working to eliminate preventable deaths at work, in homes and communities and on the road _____ 1913.
A. since B. for C. when D. in
22. The chemicals found in vinyl products are _____ cancer, obesity, diabetes, asthma, thyroid and kidney diseases, and early puberty.
A. led in B. linked in C. associated with D. joined with
23. As of November 13, 2018, Facebook _____ 600 million members: an 18% increase from the year before.
A. had been reached B. has reached C. had reached D. has reaching
24. When Billy was found, he was extremely emaciated, had trouble _____ and suffered from a severely contagious type of mange
A. to walk B. for walking C. walk D. walking
25. The revoked product, Enlist Duo, which is a weed-killing cocktail _____ two endocrine-disrupting chemicals.
A. composed of B. is composed with C. composed with D. composing of

IV. Reading comprehension. Choose the best answer based on the passage. 2 points for each.

Passage 1

The study, published this month in the journal *Oecologia*, reveals a new **wrinkle** in how insecticides may be impacting ecosystems. Mosquitoes in the study area in Costa Rica have evolved resistance to common chemicals meant to kill them and other pests. The mosquitoes' predators, meanwhile, have not kept pace with that evolution—and that has allowed the mosquito population to boom. Edd Hammill, an ecologist at Utah State University and leading author of the study, first got an inkling that insecticides might not be having their intended effect while conducting research in orange plantations in northern Costa Rica.

“We felt like we were getting a lot more mosquito bites in plantations than in pristine areas and started to wonder why,” Hammill says. So he and his team surveyed where the mosquitoes were coming from: bromeliads, a group of plants found in warm parts of the Americas, often growing on tree branches. The water-filled spaces between their tightly overlapping leaves _____ a whole community of insect larvae, including mosquitoes of the species *Wyeomyia abebala*.

26. Based on the passage, the journal *Oecologia* may be relevant to the field of _____.
A. zoology B. psychology C. entomology D. archeology
27. The word 'wrinkle' is the closest in meaning to _____.
A. idea B. feast C. wise D. crop
28. Mosquito population in Costa Rica increases because _____.
A. Mosquitoes grow fast.
B. Mosquitoes cannot resist common insecticides.
C. Mosquitoes' predators grow fast.

- D. Mosquitoes' predators cannot resist common insecticides.
29. Based on the passage, where can you find more mosquitoes?
- A. A forest in southern America.
 - B. A farm in northern Costa Rica.
 - C. A resort in northern Peru.
 - D. A vineyard in central India.
30. Which is the most appropriate word for the blank in the second paragraph?
- A. host
 - B. haunt
 - C. harvest
 - D. hang

Passage 2

The Body Shop was founded in 1976 by Dame Anita Roddick. It currently has a range of 1,000 products that sell in 3,000 franchised stores in 66 countries. Anita Roddick's cosmetics business idea originated from her visitation in 1970 of "The Body Shop" housed in a car repairs garage in the U.S. selling soaps and lotions of natural ingredients. Six years later, in 1976, Roddick opened a similar shop in the UK with the same business name, color scheme, and cosmetic lines. Since its first launch, The Body Shop experienced swift growth, increasing at a rate of 50 percent annually. The Body Shop supported social and environmental campaigns to promote its business later in the 1980s. In 1997, Roddick launched a global feminism campaign against media stereotyping for women. One of the foci was unreasonably skinny models whose images on media led to the increasing numbers in bulimia and anorexia then. The Body Shop was sold to L'Oréal in March 2006. It was reported that Anita made £130 million from the sale. Later in an interview after the takeover, Roddick addressed herself as "trojan horse" who by selling her business to a huge firm will be able to influence the decisions it makes. Following her death in 2007, Prime Minister Gordon Brown _____ her the title, Dame Anita, and praised her an inspiration to businesswomen.

31. The Body Shop in the U.S. _____.
- A. was located in a garden
 - B. was one of Anita Roddick oversea franchised stores
 - C. sold skin-care products using nature materials
 - D. experienced a rapid growth from its first launch
32. In 1997, Roddick started a global campaign to _____.
- A. raise money for endangered animals
 - B. change woman's public image
 - C. stop animal test
 - D. promote cosmetics sales
33. The patients who suffer from bulimia often _____.
- A. feel unnaturally constant hunger
 - B. become delirious
 - C. develop a fear of being in crowds
 - D. lose part of their memory
34. Which is the most appropriate word for the blank in the last line?
- A. guided
 - B. geared
 - C. googled
 - D. granted
35. Which is the best title for the passage above?
- A. The Body Shop: Origination and Development
 - B. The Body Shop: Failure and Success
 - C. The Body Shop: Dame Anita
 - D. The Body Shop in the USA

V. Essay Writing (30%)

Please write a well-organized essay in 200-250 words to discuss and give your opinion.

Should education be free for everyone? Explain.