注意：請將所有答案填寫於「答案卷」內，否則不予計分
~第1至40題為單選題，請於答案卷中填入A, B, C,或D，每題二分，無倒扣~

一、文字填空：請從四個選項中，選出最合適的單字或片語完成句子。
1. The epiglottis is ________ prevents food and drink from entering the larynx.
   (A) the (B) that (C) what (D) it

2. Farmers have fed livestock small amounts of antibiotics for many years. The drugs help the animals grow faster and prevent the ________ of sickness among farm animals that live close together.
   (A) termination (B) spread (C) contention (D) containment

3. That ________ story made everyone in the audience sob.
   (A) heartwood (B) heartburn (C) hearthrob (D) heart-rending

4. The carpets upstairs were once plastic milk containers. From the foundation to the roof tiles, the house is made almost entirely of ________ materials.
   (A) rounded (B) golden (C) recycled (D) costly

5. Wine, bread, olive oil, nuts, and legumes are other ________ of the region, and the Mediterranean Sea has historically yielded abundant quantities of fish.
   (A) streams (B) declines (C) fibers (D) staples

6. Once methane bubbles up from the sea and the forests catch fire, ________ yet more carbon instead of absorbing it, warming may increase to a level at which human life will become impossible anywhere on the planet.
   (A) attracting (B) inhaling (C) taking in (D) releasing

7. The pioneering exploration of Mars is already _________. The Mars rovers Curiosity and Opportunity are moving across the Martian surface, sending photos and data back to the Earth.
   (A) cancelled (B) underway (C) faulty (D) abortive

8. You have to pay a high ________ for express delivery.
   (A) premium (B) discount (C) insolence (D) disadvantage

9. Many people misguidedly believe that cannabis is harmless, but it ________ your coordination and visual perception.
   (A) cures (B) impairs (C) functions (D) boosts

10. Most countries have laws that prohibit the hunting and trade of tigers, but the temptation for local ________ is great.
    (A) caretakers (B) poachers (C) pilots (D) environmentalists

11. The private corporations can then interrupt your evening with an unwelcome phone call or fill your mailbox with ________ advertising in an attempt to sell their products.
    (A) ordered (B) unsolicited (C) demanded (D) requested

12. Wanting to ________ whatever oxygen remained in my tank, I asked him to reach inside my backpack and turn off the valve of my regulator, which he did.
    (A) consume (B) disperse (C) conserve (D) contaminate

13. A harmonious ________ of the architecture of Persia, India, and central Asia, it combines, for example, the traditional design of Mogul gardens with the characteristically Indian use of minarets, or towers, and a dominant dome.
    (A) mayhem (B) partition (C) obstruction (D) synthesis

14. A power cut may cause machinery to lose power, and production may be ________ until power is restored.
    (A) separated (B) halted (C) progressed (D) extended

15. Horace’s doting parents were convinced he was a child prodigy and pandered to every whim so that he soon grew into a(n) ________ brat.
    (A) respectful (B) gracious (C) spoilt (D) unassuming
16. The company accepts no _______ and will not make any reparation for delays caused by bad weather.
   (A) aerosol  (B) garret  (C) liability  (D) advocacy

17. The weather was so _______ and clear that you could see the mountains 50 miles away.
   (A) crisp  (B) awful  (C) overcast  (D) soapy

18. Russia, a declining great power, is looking for ways to recover at least some of its lost status, whereas
   China, a _______ power, bridles at what it sees as American attempts to constrain it.
   (A) rising  (B) failing  (C) raising  (D) decreasing

19. Pregnant women seen smoking or _______ are often subjected to some uninvited counseling, or at least a
   few harsh looks.
   (A) marking  (B) boozing  (C) brushing  (D) coinciding

20. _______ is a system for dealing with the complexities of learning and remembering, and people who use
    it can recall things with an amazing degree of accuracy.
    (A) Metallurgy  (B) Monasticism  (C) Mnemonics  (D) Monetarism

Questions 21-24

Normally rainy Taiwan is rationing water to ease its worst drought in a decade. The western Pacific island
that averages annual rainfall of 2,500 millimeters has seen the lowest levels in 67 years since October,
depleting reservoirs that serve the most populated cities and counties. The government has cut household
and industrial use until rainfall returns to normal. The rationing has saved about 500,000 tons of water so far. In
parts of northern Taiwan, households are able to receive tap water just five days a week, prompting some to store
up in advance. About 800,000 households had been affected as of March. In industrial regions, factories
are recycling water and cutting back on air conditioning.

Water Resources Agency spokesman Lai Chien-hsin blames a shift in ocean temperatures for rainfall of
just 1,643 millimeters last year. He says that of course part of the reason is related to temperatures of the
Pacific Ocean and that a cold, dry band of air has been aimed at Taiwan, resulting in a trend of low rainfall all
of last year. Officials decided in November, after monitoring water levels for two months, to begin rationing
supplies. Rationing affects all or part of nine cities and counties along Taiwan’s densely populated west coast.
In the city of Taoyuan, part of New Taipei city and part of Hsinchu county, households and businesses go
without tap water two days per week.

The drought has unleashed criticism over suspected leaky pipes and reservoirs that are too old or too
clogged with silt to hold whatever rainfall. Shimen Reservoir, which serves much of northern Taiwan, was at
about a quarter of capacity as of April 8. Low-flush, low-flow bathroom equipment is also rare on the island of
23 million people. Lai with the Taiwan Water Resources Agency said the government wants to double the
amount of dredging now so reservoirs can hold more water. He said that the agency is always continuing to
carry out this kind of work. But due to the drought situation, Lai said, authorities are moving toward the
biggest reservoir dredging measures ever with a goal of at least doubling the average level they have normally
dredged in the past. Taiwan President Ma Ying-jeou said last month that by May he would try to head off a
water shortage that would more seriously affect common households. He also called for better management of
Taiwan’s water.

21. The underlined word “households” can best be replaced by “_______.”
   (A) factories  (B) families  (C) reservoirs  (D) counties
22. The drought is attributed to the following EXCEPT _______.
   (A) suspected leaky pipes
   (B) old reservoirs
   (C) silt
   (D) power shortage

23. According to Lai Chien-hsin, which of the following is partly responsible for last year’s low rainfall?
   (A) A shift in ocean temperatures
   (B) The rarity of low-flush bathroom equipment
   (C) A hot, wet front affecting Taiwan
   (D) The poor condition of Shimen Reservoir

24. Dredging is by definition an effort to remove _______.
   (A) drought
   (B) rationing
   (C) silt
   (D) rainfall

**Questions 25-30**

Since human beings first took up the plow about 10,000 years ago, most of our food has come from the farmer’s hand. We grew fruits, vegetables and grains to feed ourselves and support those domesticated animals we relied on for meat and dairy products. But there was an exception. When humans fished, we still went out into the wild, braved the elements and brought back decidedly undomesticated animals for dinner. There was a romance to fishing that was inseparable from the romance of the sea, a way of life — for all its peril and terror — suffused with a freedom that the farmer and rancher would never know. Though the fishermen who roved the Sea of Galilee in Jesus’ time and the factory trawlers that scrape the ocean floor today couldn’t be more different, they share a common link to our hunter-gatherer past. “Fish are the last wild food,” says Paul Greenberg, author of *Four Fish*, one of the best books on the state of seafood. “And we’re just realizing it.”

But we may be coming to that realization too late, because it turns out that even the fathomless depths of the oceans have limits. The U.N. reports that 32% of global fish stocks are overexploited or depleted and as much as 90% of large species like tuna and marlin have been fished out in the past half-century. Once-plentiful species like Atlantic cod have been fished to near oblivion, and delicacies like bluefin tuna are on an arc toward extinction. A recent report by the international Programme on the State of the Ocean found that the world’s marine species faced threats “unprecedented in human history” — and overfishing is part of the problem.

Meanwhile, the worldwide catch seems to have plateaued at about 90 million tons a year since the mid-1990s. That’s a lot of fish, but even if those levels prove sustainable, it’s not enough to keep up with global seafood consumption, which has risen from 22 lb. per person per year in the 1960s to nearly 38 lb. today. With hundreds of millions of people joining the middle class in the developing world and fish increasingly seen as a tasty and heart-healthy form of protein, that trend will continue. The inescapable conclusion: there just isn’t enough seafood in the seas. “The wild stocks are not going to keep up,” says Stephen Hall, director of the WorldFish Center. “Something else has to fill that gap.”

25. What is the primary purpose of the passage?
   (A) To provide information
   (B) To sell a product
   (C) To make an accusation
   (D) To explain an experiment
26. According to the passage, the plow is associated with ________.
   (A) carpentry
   (B) fishing
   (C) mining
   (D) agriculture

27. The underlined word “plateaued” is closest to “________” in meaning.
   (A) stopped increasing
   (B) decreased
   (C) increased sharply
   (D) plummeted

28. According to the passage, compared with farming fishing as a means of livelihood might give
   more ________.
   (A) wealth
   (B) freedom
   (C) fame
   (D) power

29. According to the passage, which of the following is FALSE?
   (A) Atlantic cod is near oblivion.
   (B) The stocks of bluefin tuna are decreasing.
   (C) The seafood provided by the sea is limitless.
   (D) Fish is increasingly seen as a food good for the heart.

30. Which of the following questions CANNOT be answered according to information in the passage?
   (A) About when did human beings first take up the plow?
   (B) Have the stocks of tuna decreased in the past 50 years?
   (C) Has the global consumption of seafood increased in the past 50 years?
   (D) Has Jesus ever engaged in fishing in his lifetime?

Questions 31-35

John F. Nash Jr., a mathematician who shared a Nobel Prize in 1994 for work that greatly extended the
reach and power of modern economic theory and whose long descent into severe mental illness and eventual
recovery were the subject of a book and a film, both titled “A Beautiful Mind,” was killed, along with his
wife, in a car crash on Saturday in New Jersey. He was 86. Dr. Nash and his wife, Alicia, 82, were in a taxi on
the New Jersey Turnpike in Monroe Township around 4:30 p.m. when the driver lost control while veering
from the left lane to the right and hit a guardrail and another car, Sgt. Gregory Williams of the New Jersey
State Police said. The couple were ejected from the cab and pronounced dead at the scene. The State Police
said it appeared that they had not been wearing seatbelts. The taxi driver and the driver of the other car were
treated for injuries. No criminal charges had been filed on Sunday. The Nashes were returning home from the
airport after a trip to Norway, where Dr. Nash and Louis Nirenberg, a mathematician from New York
University, had received the Abel Prize from the Norwegian Academy of Science and Letters.

Dr. Nash was widely regarded one of the great mathematicians of the 20th century, known for the
originality of his thinking and for his fearlessness in wrestling down problems so difficult that few others
dared tackle them. A one-sentence letter written in support of his application to Princeton’s doctoral program
in math said simply, “This man is a genius.” “John’s remarkable achievements inspired generations of
mathematicians, economists and scientists,” the president of Princeton, Christopher L. Eisgruber, said on
Sunday, “and the story of his life with Alicia moved millions of readers and moviegoers, who marveled at
their courage in the face of daunting challenges.” Russell Crowe, who portrayed Dr. Nash in the 2001 film
adaption of “A Beautiful Mind,” posted on Twitter that he was “stunned” by the deaths. “An amazing
partnership,” he wrote. “Beautiful minds, beautiful hearts.”

Dr. Nash’s theory of noncooperative games, published in 1950 and known as Nash equilibrium, provided a conceptually simple but powerful mathematical tool for analyzing a wide range of competitive situations, from corporate rivalries to legislative decision-making. Dr. Nash’s approach is now pervasive in economics and throughout the social sciences and applied in other fields as well, including evolutionary biology. Dr. Nash also made contributions to pure mathematics that many mathematicians view as more significant than his Nobel-winning work on game theory. In one he solved an intractable problem in differential geometry derived from the work of the 19th-century mathematician G. F. B. Riemann.

31. What is the passage mainly about?
   (A) The death and achievements of a mathematician
   (B) An introduction to a Hollywood movie
   (C) The importance of fastening the seat belt
   (D) A very deep theory in differential geometry

32. According to the passage, Louis Nirenberg is the ______ of the Abel Prize with Dr. Nash.
   (A) co-editor
   (B) co-founder
   (C) co-author
   (D) co-recipient

33. According to the passage, which of the following is NOT correct?
   (A) Dr. Nash had been treated in the hospital for one day before he was pronounced dead.
   (B) Russell Crowe played Dr. Nash in A Beautiful Mind.
   (C) Dr. Nash dared tackle notoriously difficult mathematical problems.
   (D) Dr. Nash’s influence on economics is deep.

34. According to the passage, which of the following is correct?
   (A) Russell Crowe was still unaware of Dr. Nash’s death.
   (B) Dr. Nash’s mathematical achievements are widely acknowledged.
   (C) Dr. Nash won Academy Award in 1994 for his acting in A Beautiful Mind.
   (D) G. F. B. Riemann was greatly stunned by Dr. Nash’s death.

35. The underlined word “intractable” most closely means “hard to ______.”
   (A) solve
   (B) farm
   (C) raise
   (D) retract

Questions 36-40

After disproportionate media attention on Ebola’s negligible risk to people in Western and Asian countries, the focus seems at last to be shifting towards how to stop the outbreak in West Africa. The grim reality is that medical organizations are struggling: the flood of new cases far outpaces available beds and treatment centres. Many of those who are ill are not receiving the basic health care that could keep them alive.

The tragedy is that we know how to stop Ebola. Well-informed communities can reduce the main routes of spread by avoiding unprotected home-based care of infected people and by modifying traditional burial practices. Infection-control measures protect health-care workers. Together with rapid identification and isolation of ill people, and tracing and monitoring of their contacts for 21 days (the maximum incubation period of the disease), such measures have stopped Ebola outbreaks in the past. But the dysfunctional health-care infrastructure of the three countries at the centre of the outbreak—Guinea, Sierra Leone and Liberia, which are poor and struggling to emerge from years of war—is simply not up to the task. The nations need
help, and urgently.

The international community must mobilize now. Aid is increasing, but most of those involved, from
governments and the World Health Organization (WHO) to researchers, all initially underestimated the threat.
This is perhaps because most past outbreaks have been small and relatively straightforward to control. The
WHO has a part to play, but contrary to a widespread assumption, it does not have the in-house capacity to
send large teams into the field. The agency’s funding for outbreak responses has been slashed, and it has
shifted focus to helping countries to reinforce their health systems so that they can respond better themselves.
How the international community should best react to outbreaks, and what role the bureaucratic WHO should
have, is a debate for after this outbreak is over. The pressing need now is to bring all available resources and
talent to bear.

36. According to the passage, the chances of Ebola breaking out in Taiwan are _______.
   (A) overwhelming
   (B) reasonably high
   (C) very slim
   (D) pretty good

37. The author’s attitude toward the Ebola outbreak in West Africa can be best described as _______.
   (A) optimistic
   (B) rosy
   (C) apathetic
   (D) pessimistic

38. It can be inferred from the passage that proper management of the _______ of people dying of Ebola can
   reduce its spread.
   (A) corpses
   (B) effects
   (C) children
   (D) resources

39. According to the passage, the overriding concern now is _______.
   (A) revamping the dysfunctional health-care infrastructure of Guinea
   (B) overhauling the structure of WHO
   (C) getting together all available resources
   (D) debating which country or organization should be held accountable

40. According to the passage, which of the following is NOT correct?
   (A) Liberia is a poor country.
   (B) WHO’s funding for outbreak responses has been trimmed.
   (C) If properly managed, Ebola is controllable.
   (D) In Sierra Leone there are enough beds for Ebola cases.

三、寫作能力: 20%

高中畢業生選擇大學科系時應該優先考慮何種因素：興趣或是未來的出路？請用英文寫一篇大概兩百
個字的短文說明你的想法。

The End

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