

A. Choose a word that best completes each sentence. (每題 2 分)

1. Marseille is located on the southeast coast of France on the Mediterranean Sea. It is the oldest city in France. In this area, ..... villages are infused with the scent of lavender, baked bread and outdoor cafes' famous foods of the region.

A

- (a) picturesque
- (b) potential
- (c) unattractive
- (d) poignant

2. A story that is partly true, but mostly ..... is called a "tall tale." The adventures of American lumberjack Paul Bunyan is one of those tall tales. He was born in Bemidji, Minnesota.

A

- (a) exaggerated
- (b) truthful
- (c) interesting
- (d) interested

3. Winters in Minnesota came suddenly. One year, as the loggers were drinking coffee, it got so cold, the drinks instantly became .....

A

- (a) popsicles
- (b) particles
- (c) steam
- (d) perfume

4. There are countless locations ..... the globe that boast unsurpassed ocean or sea waters, filled with reefs and marine creatures.

B

- (a) surround
- (b) around
- (c) over
- (d) through

5. Does caffeine ..... you awake at night? Maybe you're drinking coffee too late in the day.

D

- (a) stay
- (b) hang
- (c) settle
- (d) keep

6. People soon discovered it was simply a ..... that the birds would reduce the insect population. Purple martins did not kill the mosquitoes.

D

- (a) truth
- (b) value
- (c) mischief
- (d) myth

7. Biologists are optimistic that these awkward, horned animals will adapt to ..... conditions, just as other species have done to ensure their survival.

B

- (a) change
- (b) changing
- (c) challenge
- (d) chance

8. Many managers use the carrot and the stick approach with their employees. If you do well, you'll get a ..... If you don't, you'll get punished.

- B
- (a) worship
  - (b) reward
  - (c) steward
  - (d) demerit

9. It's hard to stay focused ..... a complicated task when there are a lot of at work.

- B
- (a) in
  - (b) on
  - (c) up
  - (d) over

10. Some people are allergic ..... pet dander.

- A
- (a) to
  - (b) for
  - (c) on
  - (d) over

*B. Choose an item that best explains each idiomatic expression.*

11. There are times when you must decide and take the bull by the horns.

- C
- (a) make the right decision
  - (b) make the wrong decision
  - (c) make a bold decision
  - (d) make a final decision

12. I knew when Sandra told the lie that she would be eating her words later.

- B
- (a) talking in the cafeteria
  - (b) admitting to her untrue claims
  - (c) hungry
  - (d) sick

13. When the officer arrested the young boy, he asked him for a straight answer.

- B
- (a) simple
  - (b) honest
  - (c) regular
  - (d) cruel

14. We've had a lovely time and walked a long way but I think it's time to call it a day.

- C
- (a) delay
  - (b) sleep
  - (c) stop
  - (d) return

15. It's a far cry from those days long ago when you could leave your front door unlocked.

- C
- (a) a very angry shout
  - (b) something that 's illegal
  - (c) a long way in distance or character
  - (d) a warning shot

16. Charlie's in hot water again, he forgot to lock up last night.

D

- (a) in the bath
- (b) very wet
- (c) in the shower
- (d) in trouble

17. There is clearly a sea change in the way people now look at crime today.

B

- (a) a little change
- (b) a huge change
- (c) a fine change
- (d) a small change

18. Sally made her famous chocolate chip cookies from scratch.

B

- (a) using prepared dough from a box
- (b) without using prepared ingredients of any kind
- (c) using a lot of sugar or other sweeteners
- (d) without the use of sugar or any other sweeteners

19. He decided he would swallow his pride and try and hitchhike.

C

- (a) take his medicine
- (b) take no interest in other people
- (c) not worry what people thought
- (d) forget about himself

20. Artists Cezanne and Van Gogh found their ..... in the views of the local vineyards, sunflower fields, olive groves, and lavender fields, transferring these magical sights to canvas.

B

- (a) influence
- (b) inspiration
- (c) intrigue
- (d) perspiration

C. Answer the comprehension questions below.

Questions 2/223

The thought of eating human flesh sickens almost anyone, yet recent evidence gathered by archaeologists working in Spain strongly suggests that cannibalism may have been at least part of the lifestyle of ancient humans a million years ago.

In one of the largest and most significant archaeological findings ever, archaeologists uncovered more than 30 complete or nearly complete skeletons--a rare find--of individuals who lived more than 400,000 years ago. Parts of other skeletons dated more than one million years old prove that early Homo sapiens lived in what is now southwestern Europe at a time when Java Man and Peking Man lived in Asia. The researchers cautioned that cannibalism might have been a necessity rather than a choice, and there is clear evidence pointing to cannibalism such as cracked animal and human bones in the same piles. What this ultimately means may never be fully understood.

21. What was unusual about the findings in Spain?

- (a) The y uncovered pieces of Java Man and Peking Man.
- (b) The Spanish a rchaeologists were cannibals themselves.
- (c) Whole or ne arly whole skeletons were uncovered.
- (d) Bon es of nearly 400,000 individuals were found.

C

22. Which of the following statements is true?

- (a) Early Homo sapiens had settled in both Europe and Asia.
- (b) Cannibalism was the main focus of early human society.
- (c) Spain was home to Java Man and Peking Man.
- (d) One million years ago, cannibals ruled the world.

A

23. What is the significance of the Spanish archaeological finds?

- (a) Modern man is descended from cannibals.
- (b) Early Europeans were largely cannibals.
- (c) Cannibalism occurred among early humans in Europe.
- (d) Cannibals settled in Europe a million years ago.

C

Questions 24 ~ 25

In the 1970s Japan delighted—and shocked—the world by introducing video games. Concerned parents, teachers, and government officials reacted as negatively as children did positively to the new invention. "A waste of time" was the most often heard complaint. Now, thanks to a university in the Netherlands, future video games may be as educational as they are fun.

The Water for Peace Strategy Game, as it is known, challenges players to consider many aspects of terrain, local conditions, and international relations before designing a low- or no-pollution and conflict-free game of water-use strategy. Players manage various aspects of developing a water strategy, such as building homes, considering irrigation and industrial needs, and planning recreation centers within a local and international context. The game could become a prototype for other educational games.

24. Who liked the video games the Japanese introduced in the 1970s?

- (a) Water planners
- (b) Concern ed parents
- (c) Educ ational authorities
- (d) Kids

D

25. Which of the following is NOT mentioned as requiring consideration in playing the new game?

- (a) Terrain
- (b) The sour ce of rivers
- (c) International relations
- (d) Local conditions

B

選擇題

- b 1. (4%) Let  $f(x) = \frac{1}{|x|}$  and  $g(x) = x - 1$ . Find all values of  $x$  for which  $f(g(x))$  is discontinuous.  
 (a) 0 (b) 1 (c) 0.1 (d) -1.1 (e) None of these

- c 2. (4%) Find the  $x$ -values (if any) for which  $f$  is not continuous:

$$f(x) = \begin{cases} \frac{1}{x-3} & , x \leq 5 \\ \frac{1}{2} & , x > 5 \end{cases}$$

- (a) 5 (b)  $\frac{1}{2}$  (c) 3 (d) 3,5 (e) None of these

- b 3. (4%) Find  $\frac{dy}{dx}$  if  $y^2 - 3xy + x^2 = 7$ .  
 (a)  $\frac{2x+y}{3x-2y}$  (b)  $\frac{3y-2x}{2y-3x}$  (c)  $\frac{2x}{3-2y}$  (d)  $\frac{2x}{y}$  (e) None of these

- b 4. (4%) State why the Mean Value Theorem does not apply to the function  $f(x) = \frac{2}{(x-1)^2}$  on the interval  $[-3, 0]$ .  
 (a)  $f(-3) \neq f(0)$  (b)  $f$  is not continuous at  $x = -1$   
 (c)  $f$  is not defined at  $x = -3$  and  $x = 0$  (d) Both (a) and (b)  
 (e) None of these

- b 5. (4%) Let  $f(x)$  be a polynomial function such that  $f(-2) = 5$ ,  $f'(-2) = 0$ , and  $f''(-2) = 3$ . The point  $(-2, 5)$  is a \_\_\_\_\_ the graph of  $f$ .  
 (a) Relative maximum (b) Relative minimum (c) Intercept  
 (d) Point of inflection (e) None of these

- a 6. (4%) Evaluate the integral  $\int_{-1}^1 |x| dx$ .  
 (a) 1 (b) 0 (c) 2 (d) -1 (e) None of these

- c 7. (4%) Evaluate  $\int \frac{e^{\frac{1}{x+1}}}{(x+1)^2} dx$ .  
 (a)  $\frac{e^{\frac{1}{x+1}}}{2(x+1)} + C$  (b)  $\frac{e^{\frac{-1}{x+1}}}{(x+1)^2} + C$  (c)  $-e^{\frac{1}{x+1}} + C$  (d)  $\frac{e^{\frac{-x}{x+1}}}{(x+1)^2}$   
 (e) None of these

- c 8. (4%) Find the sum  $\sum_{n=0}^{\infty} 3\left(\frac{1}{2}\right)^n$ .  
 (a)  $\frac{3}{2}$  (b) 3 (c) 6 (d)  $\frac{50}{9}$  (e) None of these