

A. Structure & Vocabulary

1. In this changeable weather, climbers must be very careful to choosetime to leave for the main mountain tipin height than the rest of the mountains around.
a. better / higher b. the best / the highest
c. the best / higher d. the better / the higher
2. The two images on the logo were much alike. The blue one wassimilar in size and shape and even backgroundthe red one.
a. as / as b. as / than c. than / as d. so / as
3. As the spaceship wentthe pictures it sent got
a. farther / less visible b. further / visible less
c. far / little visible d. far / visible more
4. He wanted to look more modern, so he searched every shop to find some..... clothes.
a. foreign high-class best quality
b. best quality high-class foreign
c. high-class best quality foreign
d. best quality foreign high-class
5. It was amazing to see such asky in that area because all the time in the year it is always covered with thick fog.
a. pure b. clear c. clean d. great
6. Some people give a regular monthly while others vary the amount they give.
a. orbit b. circulation c. donation d. defense
7. he didn't believe she was terribly injured in the accident until he could see the firstof blood coming out from under the car back seat.
a. ants b. liquids c. brains d. drops
8. Everybody in the village was talking about the two young singers who used to wear black suits and shoes exactly
a. around b. along c. alike d. ahead
9. The foods in the rural areas are usually regarded to bebecause of that many tourists try to buy them from villagers.
a. healthy b. strong c. helpful d. fortunate
10. The doctor said his surgery did notany risk of any kind.
a. carry b. consider c. leave d. offer
11. Extra doses of the hormone caused the animals' sensoryto lose their natural functions.
a. brains b. minds c. organs d. forms
12. When three of the students started to show signs of boredom and not listening well, I got thethat I should finish the lecture.
a. material b. term c. pain d. hint
13. Although in tropical areas plants tend to growbecause of direct light, there are some types of them that spread on the ground.
a. quickly b. upward c. inside d. toward
14. Nothe space has been a secret for human being for a long time since they could not fly into space until recently.
a. matter b. fear c. problem d. wonder
15. As the police always warn, everybody, especially women, must be ready tothemselves against attackers in the street.
a. defend b. donate c. carry d. hold

B. Cloze Passage

Thousands of years ago, people observed the night sky and recorded their16.....in cave paintings and rock art. These early observations17.....without telescopes or other devices. The only things early people could see were the18.....of the moon and some of the moon's larger.....19..... They could also see some of the planets and many stars. Then, about 400 years ago, the telescope was invented. It allowed people to observe objects in space in20...detail.

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| 16. a. observations | b. attentions | c. abilities | d. donations |
| 17. a. making | b. made of | c. were made | d. that were made |
| 18. a. scenes | b. steps | c. stages | d. phases |
| 19. a. chemicals | b. feathers | c. features | d. inventions |
| 20. a. very higher | b. such bigger | c. much greater | d. so wider |

C. Reading Comprehension Passage

The ability of falling cats to right themselves in midair and land on their feet has been a source of wonder for ages. Biologists long regarded it as an example of adaptation by natural selection, but for physicists it bordered on the miraculous. Newton's laws of motion assume that the total amount of style of a body cannot change unless an external necklace speeds it up or slows it down. If a cat has no turning when it is released and experiences no external necklace, it ought not to be able to twist around as it falls. In the speed of its performance, the righting of a falling cat resembles a magician's trick. The rotations of the cat in midair are too fast for the human eye to follow, so the process is unclear. Either the eye must be speeded up, or the cat's fall slowed down for the phenomenon to be observed. A century ago the former was performed by means of high speed photography using equipment now available in any pharmacy.

But in the nineteenth century the capture on film of a falling cat made up a scientific experiment. The experiment was described in a paper presented to the Paris Academy in 1894. Two sequences of twenty photographs each, one from the side and one from behind, show a white cat in the act of righting itself. Although they are somehow strange, the photos show that the cat was dropped upside down, with no initial spin, and still landed on its feet. Careful analysis of the photos reveals the secret ; As the cat rotates the front of its body clockwise, the back and tail twist counterclockwise, so that the total spin remains zero, in perfect accord with Newton's laws. Halfway down, the cat pulls in its legs before reversing its twist and then extends them again, with the desired end result. The explanation was that while nobody can acquire spin without necklace, a flexible one can readily change its direction, or phase. Cats know this instinctively, but scientists could not be sure how it happened until they increased the speed of their understanding a thousand times.

21. What does the passage mainly discuss?

- a. The explanation of an interesting phenomenon
- b. Miracles in modern science
- c. Procedures in scientific investigation
- d. The differences between biology and physics

22. The word "process "in line 7 refers to.....

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| a. the righting of a tumbling cat | b. the cat's fall slowed down |
| c. high-speed photography | d. a scientific experiment |

23. Which of the following can be inferred about high-speed photography in the late 1800's ?

- a. It was a relatively new technology.
- b. The necessary equipment was easy to obtain.
- c. The resulting photographs are difficult to interpret.
- d. It was not fast enough to provide new information.

24. The word "rotates" in line 14 is closest in meaning to.....

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| a. drops | b. turns | c. controls | d. touches |
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25. According to the passage, a cat is able to right itself in midair because it is.....

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| a. frightened | b. small | c. intelligent | d. flexible |
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