

# 國立清華大學 100 學年度碩士班入學考試試題

系所班組別：科技管理研究所

考試科目（代碼）：英文(4603)共 4 頁，第 1 頁 \*請在【答案卷、卡】作答

There are total 20 multiple-choice questions and 5 points for each question. Please choose one best answer in each question.

## Section One : Structure, Written Expression, and Logic Reasoning

1. Outbreaks of diseases in trees commonly occur ---- stressed because of drought or other environmental factors.  
(A). as forests that become  
(B). in forests become  
(C). that become forests  
(D). when forests become
2. Geothermal energy is a potentially inexhaustible energy source \_\_\_\_\_ been tapped by humans for centuries but, until recent years, only on a small scale.  
(A). has it  
(B). has  
(C). that has  
(D). that it has
3. Pearl Sydenstricker Buck, \_\_\_\_\_ the Nobel Prize for Literature in 1938, is Best known for her novels about China.  
(A). won  
(B). winner of  
(C). to win  
(D). who the winner of
4. The importance of the hand, and more generally of the body, in children's acquisition of arithmetic \_\_\_\_\_.  
(A). can hardly be exaggerated  
(B). hardly exaggerated can be  
(C). can be exaggerate hardly  
(D). exaggerated can be hardly
5. By ---- excluding competition from an industry, governments have often created public service monopolies.  
(A). they adopt laws  
(B). laws are adopted  
(C). adopting laws  
(D). having laws adopt
6. Stage producers Klaw and Erlanger were the first to eliminate arguments among leading performers \_\_\_\_\_ in order of appearance, instead of prominence.  
(A). of whom list the program  
(B). the program listing  
(C). for them the program listed  
(D). by listing them on the program
7. In eighteenth-century North America, printed engravings provided ---- of rococo style.  
(A). the most manifestation widespread  
(B). manifestation widespread the most  
(C). the widespread manifestation most  
(D). the most widespread manifestation

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8. Most documentary filmmakers use neither actors \_\_\_\_\_studio setting.
- (A). or else
  - (B). but not
  - (C). nor
  - (D). and
9. Isabel Bishop was one of many American artists ---- by the government during the Depression years on various federal art projects.
- (A). employed
  - (B). whose employment
  - (C). to employ
  - (D). had been employed
10. The province of Alberta lies along three of the major North American flyways Used by birds \_\_\_\_\_between their winter and summer homes.
- (A). the migration
  - (B). migrating
  - (C). migrate
  - (D). and migrate
11. Many people suffer an allergic reaction to certain sulfites, including those that are commonly added to wine as preservatives. However, since there are several wine makers who add sulfites to none of the wines they produce, people who would like to drink wine but are allergic to sulfites can drink wines produced by these wine makers without risking an allergic reaction to sulfites. Which of the following is an assumption on which the argument depends?
- (A). These wine makers have been able to duplicate the preservative effect produced by adding sulfites by means that do not involve adding any potentially allergenic substances to their wine.
  - (B). Not all forms of sulfite are equally likely to produce the allergic reactions.
  - (C). Wine is the only beverage to which sulfites are commonly added.
  - (D). Apart from sulfites, there are no substances commonly present in wine that give rise to an allergic reaction.
  - (E). Sulfites are not naturally present in the wines produced by these wine makers in amounts large enough to produce an allergic reaction in someone who drinks these wines.
12. Which of the following most logically completes the passage?
- Garnet and RenCo each provide health care for their employees. Garnet pays for both testing of its employees' cholesterol levels and treatment of high cholesterol. This policy saves Garnet money, since high cholesterol left untreated for many years leads to conditions that require very expensive treatment. However, RenCo does not have the same financial incentive to adopt such a policy, because \_\_\_\_\_.
- (A). early treatment of high cholesterol dose not entirely eliminate the possibility of a stroke later in life
  - (B). the mass media regularly feature stories encouraging people to maintain diets that are low in cholesterol
  - (C). RenCo has significantly more employees than Garnet has
  - (D). RenCo's employees are unlikely to have higher cholesterol levels than Garnet's employees
  - (E). the average length of time an employee stays with RenCo is less than it is with Garnet

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13. Which of the following most logically completes the passage?

Concerned about financial well-being of its elderly citizens, the government of Runagia decided two years ago to increase by 20 percent the government-provided pension paid to all Runagians over 65. Inflation in the intervening period has been negligible, and the increase has been duly received by all eligible Runagians. Nevertheless, many of them are no better off financially than they were before the increase, in large part because \_\_\_\_\_.

- (A). They rely entirely on the government pension for their income
- (B). Runagian banks are so inefficient that it can take up to three weeks to cash a pension check
- (C). They buy goods whose prices tend to rise especially fast in times of inflation
- (D). The pension was increased when the number of elderly Runagians below the poverty level reached an all-time high
- (E). In Runagia children typically supplement the income of elderly parents, but only by enough to provide them with a comfortable living

## Section Two: Reading Comprehension

Questions 14-20

Molting is one of the most involved processes of a bird's annual life cycle.

Notwithstanding preening and constant care, the marvelously intricate structure of a bird's Feather inevitably wears out. All adult birds molt their feathers at least once a year, and upon close observation, one can recognize the frayed, ragged appearance of feathers that are nearing the end of their useful life. Two distinct processes are involved in molting. (Line 5)

The first step is when the old, worn feather is dropped, or shed. The second is when a new feather grows in its place. When each feather has been shed and replaced, then the molt can be said to be complete. This, however, is an abstraction that often does not happen: incomplete, overlapping, and arrested molts are quite common.

Molt requires that a bird find and process enough protein to rebuild approximately one-third of its body weight. It is not surprising that a bird in heavy molt often seems listless and unwell. But far from being random, molt is controlled by strong evolutionary forces that have established an optimal time and duration. Generally, molt occurs at the time of least stress on the bird. Many songbirds, for instance, molt in late summer, when the hard work of breeding is done but the weather is still warm and food still plentiful. (Line 15)

This is why the woods in late summer often seem so quiet, when compared with the Exuberant choruses of spring.

Molt of the flight feathers is the most highly organized part of the process. Some species, for example, begin by dropping the outermost primary feathers on each side (to retain balance in the air) and wait until the replacement feathers are about one-third grown before (Line 20) shedding the next outermost, and so on. Others always start with the innermost primary feathers and work outward. Yet other species begin in the middle and work outward on both weeks while the replacement feathers grow.

14. The passage mainly discusses how

- (A). birds prepare for breeding
- (B). bird feathers differ from species
- (C). birds shed and replace their feathers
- (D). birds are affected by seasonal changes

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15. The word "Notwithstanding" in line 2 is closest in meaning to
- (A). despite
  - (B). because of
  - (C). instead of
  - (D). regarding
16. The word "intricate" in line 2 is closest in meaning to
- (A). regular
  - (B). complex
  - (C). interesting
  - (D). important
17. Which of the following is NOT mentioned as a reason that songbirds molt in the late summer?
- (A). Fewer predators are in the woods.
  - (B). The weather is still warm.
  - (C). The songbirds have finished breeding.
  - (D). Food is still available.
18. Some birds that are molting maintain balance during flight by
- (A). constantly preening and caring for their remaining feathers
  - (B). dropping flight feathers on both sides at the same time
  - (C). adjusting the angle of their flight to compensate for lost feathers
  - (D). only losing one-third of their feathers
19. The word "Others" in line 21 refers to
- (A). ducks
  - (B). sides
  - (C). species
  - (D). flight feathers
20. It can be inferred from the discussion about ducks that the molting of their flight feathers takes
- (A). a year
  - (B). a season
  - (C). several months
  - (D). a few weeks