

# 國立中山大學 102 學年度碩士暨碩士專班招生考試試題

科目名稱：科技英文【機電系碩士班戊組】

題號：438008

※本科目依簡章規定「不可以」使用計算機

共 3 頁第 1 頁

## I. Single Choice Questions (3% for each)

1. It is said he was a man, \_\_\_\_\_ to have the vision of an eagle and courage of a lion.  
(A) who appeared  
(B) he appeared  
(C) that appears  
(D) and appears
2. After the discovery of the abandoned getaway vehicle, \_\_\_\_\_ believed to be hiding in the nearby Riverside forest region.  
(A) that the bank robber is  
(B) the bank robber who  
(C) the bank robber is  
(D) the bank robber who is
3. \_\_\_\_\_ getting the highest result in the class, John still had problems with the teacher.  
(A) Despite of  
(B) In spite of  
(C) Even though  
(D) Nonetheless
4. This new service will be available to all users \_\_\_\_\_ up for paid membership.  
A. that signed  
B. that signed it  
C. which signed  
D. sign
5. \_\_\_\_\_ explores the nature of guilt and responsibility and builds to a remarkable conclusion.  
(A) The written beautifully novel  
(B) The beautifully written novel  
(C) The novel beautifully written  
(D) The written novel beautifully
6. The beginning of the Symbolist movement in art \_\_\_\_\_ having begun in the late 1880's.  
(A) is regarded as  
(B) is regarded  
(C) is regarding  
(D) regarded as
7. \_\_\_\_\_ in history caused as much shock and grief worldwide as the 2004 tsunami disaster in Asia.  
(A) None natural disaster  
(B) That natural disaster  
(C) No natural disaster  
(D) The natural disaster
8. I think Jane deserved to be fired for her \_\_\_\_\_.  
(A) totally behavior irresponsible  
(B) behavior totally irresponsible  
(C) irresponsible totally behavior  
(D) totally irresponsible behavior

國立中山大學 102 學年度碩士暨碩士專班招生考試試題

科目名稱：科技英文【機電系碩士班戊組】

題號：438008

※本科目依簡章規定「不可以」使用計算機

共 3 頁第 2 頁

9. \_\_\_\_\_ appeared to be coming from the science lab next door.  
(A) The pungent unpleasant odor of burning plastic  
(B) The unpleasant pungent odor of burning plastic  
(C) The pungent unpleasant odor of plastic burning  
(D) The unpleasant odor pungent of burning plastic
10. The teacher didn't know \_\_\_\_\_.  
(A) which noun clauses teach  
(B) which noun clauses to teach  
(C) why noun clauses to teach  
(D) when noun clauses to teach
11. The English word formula is derive \_\_\_\_\_ the Latin forma, or form.  
(A) to  
(B) from  
(C) in  
(D) by
12. Most scholars accept Dr. Paul's proposal \_\_\_\_\_ principle, but they need to be cautious and take other ideas into consideration.  
(A) at  
(B) from  
(C) in  
(D) by
13. The minister stepped down in response \_\_\_\_\_ public pressure over the insider-trading scandal.  
(A) to  
(B) of  
(C) in  
(D) by
14. The columnist wrote \_\_\_\_\_ conclusion that the U.S. is entering recession after the subprime mortgage crisis.  
(A) to  
(B) of  
(C) in  
(D) by
15. Previous \_\_\_\_\_ the establishment of laws in 2007, abortion was illegal in the Mexican city.  
(A) to  
(B) of  
(C) in  
(D) by
16. Students are required to \_\_\_\_\_ critical evaluations of the methodology adopted in the journal article.  
(A) choose  
(B) work  
(C) produce  
(D) make
17. The prisoners were \_\_\_\_\_ to the cells 24 hours a day after their attempt to escape.

# 國立中山大學 102 學年度碩士暨碩士專班招生考試試題

科目名稱：科技英文【機電系碩士班戊組】

題號：438008

※本科目依簡章規定「不可以」使用計算機

共 3 頁第 3 頁

- (A) closed
- (B) restricted
- (C) approached
- (D) arrived

18. One effective strategy \_\_\_\_\_ to fight AIDS was to expand the testing and treatment programs aimed at high-risk populations.

- (A) spread
- (B) worked
- (C) obtained
- (D) adopted

19. In order to find out the cause of earthquakes, the seismologist \_\_\_\_\_ out a geological survey of the area.

- (A) made
- (B) worked
- (C) carried
- (D) derived

20. The astrophysicists try to \_\_\_\_\_ how a star behaves from an analytical model.

- (A) deduce
- (B) exclude
- (C) ensure
- (D) dominate

## II. English to Chinese Translation

1. Another effort aims to study energy harvesting and actuation properties of the modified NFES (near-field electrospinning) piezoelectric nanofibers. A electrospinning technique by means of NFES was developed to produce the controllable nanofiber deposition. Compared with the conventional electrospinning process, it shows that decreasing electrical field in continuous NFES results in smaller line width fibers deposition. (20%)
2. To overcome these shortcomings, a new approach to the control of vision-guided calibration-free robots is presented in this paper. (5%)
3. Although substantial studies have been performed on the critical factors that affect the electromigration lifetime of Al alloys, those of Cu are still critically lacking. (5%)
4. In this experiment, we constructed a test bed as shown in Fig. 13 that consists of a dual arm and a real-time stereo system. (5%)
5. Clearly, the findings indicate that the amount of exposure to a foreign language has a positive effect on student performance. (5%)

