

系所組別：電腦與通信工程研究所乙組

考試科目：通訊工程英文

考試日期：0226，節次：1

請勿在本試題紙上作答，否則不予計分

Part 1 單選題：請選出每一題 A) B) C) D) 四個選項中最符合該題題義的答案 (20\*2%=40%)

1. Workers in the fine arts \_\_\_\_\_ thoughts and feelings through their creative works.  
A) transmit                      C) convey  
B) elaborate                      D) contribute
2. Small as it is, the ant is as much a creature as \_\_\_\_\_ all other animals on earth.  
A) are                                      C) is  
B) do                                         D) have
3. The policeman declared that the blow on the victim's head \_\_\_\_\_ from behind.  
A) should have been made            C) would have been made  
B) must have been made              D) ought to have been made
4. Finding a job can be \_\_\_\_\_ and disappointing, and therefore it is important that you are prepared.  
A) exploiting                          C) profiting  
B) frustrating                         D) misleading
5. It British government often says that furnishing children with \_\_\_\_\_ to the information superhighway is a top priority.  
A) procedure                          C) allowance  
B) protection                         D) access
6. Louis Herman, at the University of Hawall, has \_\_\_\_\_ a series of new experiments in which some animals have learned to understand sentences.  
A) installed                            C) devised  
B) equipped                            D) formatted
7. Researchers at the University of Illinois determined that the \_\_\_\_\_ of a father can help improve a child's grades.  
A) involvement                      C) association  
B) interaction                         D) communication
8. We can accept your order \_\_\_\_\_ payment is made in advance.  
A) in the belief that                  C) on the excuse that  
B) in order that                        D) on condition that
9. Many in the credit industry expect that credit cards will eventually \_\_\_\_\_ paper money for almost every purchase.  
A) exchange                          C) replace  
B) reduce                                D) trade
10. Any donation you can give will help us \_\_\_\_\_ the suffering and isolation of the homeless this New Year.  
A) lift                                       C) comfort  
B) patch                                  D) ease
11. In India more than one hundred languages are spoken, \_\_\_\_\_ which only fourteen are recognized as official.  
A) of                                        C) with  
B) in                                         D) within
12. Techniques for \_\_\_\_\_ sleep would involve learning to control both mind and body so that sleep can occur.  
A) cultivating                         C) pushing  
B) promoting                          D) strengthening
13. It is important to \_\_\_\_\_ between the rules of grammar and the conventions of written language.  
A) determine                          C) explore  
B) identify                                D) distinguish
14. It is too early to say whether IBM's competitors will be able to \_\_\_\_\_ their products to the new hardware at an affordable cost.

(背面仍有題目,請繼續作答)

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- A)adapt C) yield  
B)stick D)adopt
15. This research has attracted wide coverage in the \_\_\_\_\_ and has featured on BBC television's Tomorrow's World.  
A) data C)message  
B)source D)media
- 16.I had just posted the letter when I remembered that hadn't \_\_\_\_\_ the cheque.  
A) imposed C)enclosed  
B) involved D)contained
- 17.She had a tense expression on her face, \_\_\_\_\_ she were expecting trouble.  
A) even though C)even as  
B) as though D) now that
- 18.They were \_\_\_\_\_ admission to the military exhibition because they were foreigners.  
A) denied C)deprived  
B) declined D) rejected
- 19.It gave me a strange feeling of excitement to see my name in \_\_\_\_\_.  
A) prospect C) process  
B) print D) press
20. Residents were cutting their lawns, washing their cars and otherwise \_\_\_\_\_ a pleasant, sunny day.  
A) idling away C) chasing away  
B) taking away D) driving away

PartII 挑錯與改正： 從 S1 到 S10 有 10 個空格，每一空格代表該句有一錯誤，請挑出該錯誤並加以改正 (10\*3%=30%)

例：

Now he had the capability to leave that planet \_\_\_\_\_ S0. \_\_\_\_\_  
and move out into the universe to those worlds which he  
has known previously only directly.

答案: S0: had→has

Every week hundreds of curriculum vitae (CVs) land on our desks.  
We've seen it all: CVs printed on pink paper, CVs that are 10  
pages long and CVs with silly mistakes in first paragraph. A  
good CV is your passport to an interview and, ultimate, to  
the job you want. S1 \_\_\_\_\_  
S2 \_\_\_\_\_

Initial impressions are vital, and a badly presented CV  
could mean acceptance, regardless of what's in it. S3 \_\_\_\_\_  
Here are a few ways to avoid end up on the reject pile. S4 \_\_\_\_\_

Print your CV on good-quality white paper.  
CVs with flowery backgrounds or pink paper will  
stand out upon all the wrong reasons. S5 \_\_\_\_\_

Get someone to check for spelling and grammatical  
errors, because a spell-checker will pick up every  
mistake. CVs with errors will be rejected—it shows  
that you don't pay attention to detail. S6 \_\_\_\_\_

Restrict your self to one or two pages, and  
listing any publications or referees on a separate sheet. S7 \_\_\_\_\_  
If you are sending your CV electronically, check the  
formatting by sending it to yourself first. keep up S8 \_\_\_\_\_

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the format simple.

Do not send a photo unless specifically requested. If you have to send one, make sure it is one taken in a professional setting, rather than a holiday snap.

S9 \_\_\_\_\_

Getting the presentation right is just the first step. What about the content? The Rule here is to keep it factual and truthful-exaggerations usually get found out. And remember to tailor your CV to each different job.

S10 \_\_\_\_\_

### Part III: 英翻中 (30%)

The multiple-antenna in Multiple-Input-Multiple-Output (MIMO) systems can be exploited in different ways to achieve multiplexing, diversity, or antenna gains. However, regardless of the use as spatial multiplexing, diversity, or smart antenna system, the main drawback of any MIMO scheme is an increase in complexity and cost. This is primarily due to three main reasons:

- Inter-Channel Interference (ICI), which is introduced by superimposing independent information sequences to be transmitted by multiple transmit-antenna.
- Inter-Antenna Synchronization (IAS), which represents the baseline assumption for space-time and delay-diversity encoded methods
- Multiple Radio Frequency (RF) chains, which are needed to transmit all the signals simultaneously and are, in general, expensive and do not follow Moore's law

Furthermore, several transceiver designs require a number of receive-antenna greater than the number of transmit-antenna, which may limit, due to economical reasons on mobile handsets, their application to downlink settings. These issues make the practical implementation of MIMO schemes difficult, especially in mobile stations, as the necessary hardware and digital signal processing require significant energy. However, due to the important advantages of MIMO techniques it must be a clear research goal to develop new approaches for multiple-antenna transmission in order to mitigate the practical limitations while retaining the key advantages.

(source: Renzo, M.D. Haas, H. Grant, P.M. "Spatial Modulation for Multiple-Antenna Wireless Systems: A Survey", IEEE Communications Magazine, Volume 49, Issue 12, 2011, pp.182 – 191)