

國立清華大學命題紙

95 學年度 資訊系統與應用(所) 乙 組碩士班入學考試

科目 英文 科目代碼 2803 共 3 頁第 1 頁 *請在【答案卷卡】內作答

英文試題

請注意：請按題目順序作答，把答案寫於答案紙上即可

Part I: Translate the following passages to English (30%)

1. 網路電話利用網際網路傳送語音訊息。它可大幅降低長途電話費用。
2. 本文檢驗在小型螢幕上搜尋的失敗成因，並提出改善設計的方法。
3. 我們希望本文所探討的議題，能激發關於訊息分享的討論。

Part II: Translate the following passages to Mandarin (20%)

1. While Microsoft has been dogged by years of less-than-perfect business practices, the company is making progress.
2. Your work is going to fill a large part of your life, and the only way to be truly satisfied is to do what you believe is great work. And the only way to do great work is to love what you do. If you haven't found it yet, keep looking. Don't settle.

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Part III: Read the following passages and answer questions in English (20%)

The holiday season is notorious for the emotional stress it evokes. Now, researchers at the University of Pennsylvania School of Medicine have come up with a non-invasive way to see the effects of psychological stress in an area of the brain linked to anxiety and depression. This research has important implications for how practitioners treat the numerous long-term health consequences of chronic stress.

In the study, which is reported in the Nov.21 online edition of the *Proceedings of the National Academy of Sciences*, researchers used functional magnetic resonance imaging (fMRI) to detect an increase in blood flow to the prefrontal cortex in individuals subjected to stress. Further, the increase remained even when the stressor was removed, suggesting the effects of stress are more persistent than once thought.

Whereas most previous fMRI studies have relied on indirect measures of cerebral blood flow, the Penn team, led by John A. Detre, measured blood flow directly, using a technique called arterial spin labeling. The technique is non-invasive, relying on magnetically "tagging" the water molecules in subjects' blood.

This research is supported by the National Science Foundation, the National Institutes of Health, and the U.S. Air Force. (Extracted from the NSF Press Release, November 22, 2005)

Questions

- 1: What is the most significant finding of this research?
- 2: Compare the differences between previous studies and this research.

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Part IV: Write English letter based on the following instructions (30%)

You are very interested in Professor Robert Miller's research and hope that you can become his advisee.

Please write Professor Robert Miller an English letter (about 250 words) via email briefly describing yourself, your research interests and study plan in the hope that after reading this letter he would like to give you a chance for an interview.

This email is very important to you. Please follow all of the instructions to compose your email by using the email template and Professor Robert Miller's email account below.

You have to fill in the Subject and give yourself a blind carbon copy (Bcc).

Professor Robert Miller's email: Robert.miller@mx.nthu.edu.tw

