

國 立 清 華 大 學 命 題 紙

九十二學年度 資訊系統與應用研究 系(所) 乙 組碩士班研究生招生考試  
科目 資訊系統應用 科號 2901 共 3 頁第 1 頁 \*請在試卷【答案卷】內作答

1. Explain the following terms? (18%)

(A) Modem (B) Codec (C) Anchors and links in hypertext (D) Per to per networks  
(E) POP server (F) TCP/IP

2. What is packet switching? What are the differences between circuit switching and packet switching? (8%)

3. What is Digital Subscribe Line (DSL)? What are major differences between DSL and cable modem? (8%)

4. For each of the following examples, which would be more suitable, bitmap based graphics or vector based graphics? (5%)

(A) Circuit diagrams (B) Brain scans (C) A cartoon character such as Mickey Mouse  
(D) Paint programs (E) Draw programs

5. Multiple choice questions (4%)

(1) The Internet is an example of which kind of computer network?

A) Centralized B) Hub C) Star D) Distributed

(2) Which file name extension would signify a photographic image?

A) .gif B) .jpeg C) .png D) .img

(3) Which image format has been officially copyrighted?

A) GIF B) JPEG C) PNG D) none of the above

(4) What does a browser do with the text inside a comment tag?

A) displays it B) ignores it C) displays and centers it D) none of the above

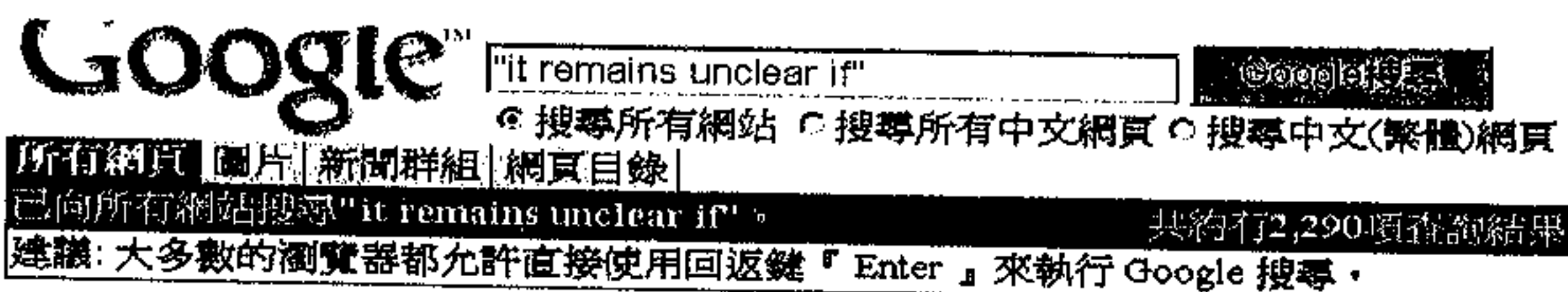
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科目 資訊系統應用 科號 2901 共 3 頁第 2 頁 \*請在試卷【答案卷】內作答

6. To help create successful information system, the system development life cycle (SDLC) was developed. Please briefly describe the five phases of SDLC. (7%)
7. More and more people are suggesting using search engines beyond their original purpose. For instance, some suggest that it is useful to use Google to verify whether "it remains unclear if" in the following Washington Times report is a commonly used expression:

But it remains unclear if Hamdi will be considered a citizen, despite being born here. Justice Department officials said Friday that they are pondering Hamdi's citizenship status.

Here is the evidence from Google



**Infineon walks away from ProMos DRAM venture**

... Although it remains unclear if Munich-based Infineon will sell its stake in ProMos, the company said it will stop placing orders for DRAM through its former ...  
www.ebnonline.com/story/OEG20021004S0018 - 24k - [頁庫存檔](#) - [類似網頁](#)

**Second US Taliban leaves Cuba -- The Washington Times**

... plane Friday afternoon. But it remains unclear if Hamdi will be considered a citizen, despite being born here. Justice Department ...  
www.washtimes.com/upi-breaking/05042002-110400-1424r.htm - 28k - [頁庫存檔](#) - [類似網頁](#)

**July/August 2000 - Pain Care Remains on Congressional Agenda**

... While it remains unclear if Congress will approve this bill before it adjourns this fall, the highly charged debate over physician-assisted suicide has, for ...  
www.ampainsoc.org/pub/bulletin/jul00/poli1.htm - 26k - [頁庫存檔](#) - [類似網頁](#)

**PROCAARE: 1998 antiretroviral therapy recommendations--II**

... or vaccination. However, it remains unclear if a threshold exists in viral load increase which mandates a change in therapy. At ...

- (1) Explain why typing in (b) instead of (a) may not work (5%)  
(a) "it remains unclear if"  
(b) it remains unclear if
- (2) Describe how to use a search engine to verify whether to use (a) or (b) when writing in English (5%)  
(a) arouse interest  
(b) arise interest

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8. Explain the following terms or operations ? (40%)

(1) Universal Resource Locator (URL)

(2) Hypertext

(3) Structural Query Language

(4) Relational database

(5) Recording a Microsoft word macro (How?)

(6) Cell addresses for spreadsheet

(7) Range in a spreadsheet

(8) Sum up a range of data in a spreadsheet (How?)