



ICT Last Minute

1. Compulsory

- Information Processing (data -> information)
- Microsoft Office
 - i. Word – formatting and usage
 - ii. Excel (all functions in textbook) – identification and function writing
 - iii. Database (DBMS) in Access, hierarchy and SQL statement in MySQL syntax
 1. Select
 2. Data Manipulation Language (DML)
 - a. Insert
 - b. Update
 - c. Delete
 3. Data Creation Language (DCL)
 - a. Create
 - b. Alter
 - c. Drop
- Mail merge, Word merge, import and export functionalities among different applications in Microsoft Office



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- **Data Conversion & Comparison only in Decimal, Binary and Hexadecimal (Oct is out-syllabus). Also coding system, e.g. ASCII, Big5, GB, Unicode and so on. Note** there is no need to memorize any Chinese character in binary presentation vice versa in Big5 and GB**
- **Computer system architecture, different operating system, utility programs and application software**
- **Syntax and/or writing/drawing of Assembly language, HTML, domain & URL, Pseudocode and flowchart**
- **Identification of different program languages and tackle errors (syntax, runtime, logical), from 1GL to 5GL**
- **TCP/IP, other common protocols, OSI network model and network topologies**



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- **Systematic Problem Solving Approach** 系統化解決問題方式

i. **PAD STD** (*Pad Standard* 沿著標準走)

P	Problem Identification 釐清問題
A	Problem Analysis 問題分析
D	Designing an Algorithm 設計算法 (Algorithm Design 算法設計)
S	Developing a Solution 發展解決方案
T	Debugging and Testing 除錯和測試 (Algorithm Testing 算法測試)
D	Documentation 文件編制



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- Intellectual Property Rights (IPRs), Personal Data Ordinance, piracy, Internet threat (virus, spyware, worm, spam, Trojan-horse, Malicious Scripts, Phishing, etc.), malware, adware, Hacking & Cracking
- Different type of software
- Encryption & Decryption (e.g. eCert, SSL, public key & private key, symmetric, asymmetric)
- Future home, society & technologies



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2. Exam 重點攻略

1. Past paper focus 歷屆試題重點

- 2004 to 2010 年
- Skip all programming questions in CS papers except Pseudocode and Flowchart questions.
在電腦科試卷中，除偽代碼和流程圖的題目外，略過其他所有有關程序的題目。

2. Terminology to pay attention 注意專用詞

- All abbreviation terms, e.g. CPU, ALU, CU and so on

3. New Technology Awareness 留意新科技

- Focus on Worldwide technologies 留意國際性科技
- Focus on governmental IT services and technologies 留意香港政府提供的 IT 服務與科技 (e.g. www.gov.hk and www.esdlife.com)





4. 單位攻擊

What is the minimum broadband connection speed required to download a 980KB video clips in three seconds?

如果要在 3 秒下載一段 980KB 的影片，所需的寬頻連線速度最少要多少？

- A. 800 kbps
- B. 1 Mbps
- C. 2.3 Mbps
- D. 3 Mbps

Note: the unit of bps is bit/second → b/s

單位是 bit/second → b/s

$$\frac{980 \text{ KB}}{3 \text{ s}} \times \frac{8 \text{ b}}{1 \text{ B}} \times \frac{1 \text{ M}}{1024 \text{ K}} = \underline{2.344 \text{ Mb}}$$



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3. 長題目答題技巧

Steps 步驟:

1. Read the entire question 閱讀整條題目
2. Never leave any answer BLANK 不要留空
任何答案
3. According to the scenario (if any), apply
your BOOK knowledge first 在適當情況下
(如有), 先應用課本知識作答
4. 出招→人用\$\$快定慢**
5. Common sense 常識

*Notes** answer in COMPLETE SENTENCE only*

所有答案必須為完整句子



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人用\$\$快定慢

人	<p>Effect to user, society, government, school, organization (e.g. better health, increase accuracy, increase productivity, reduce digital divide)</p> <p>對用戶、社會、政府、學校和團體的影響 (例如較健康、較準確、提高生產力、減少數碼鴻溝)</p>
用	<p>The use of it (e.g. scan for characters, authentication on the internet)</p> <p>它的使用 (例如字符的掃描、互聯網上的認證)</p>
\$	<p>The price/cost on user and/or provider</p> <p>用戶和供應商的價錢及代價</p>
快定慢	<ul style="list-style-type: none">✚ The speed of it 它的速度✚ Its efficiency 它的效能✚ The comparison to others 與其他的比較



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