Hong Kong Examinations and Assessment Authority Hong Kong Advanced Level Examination 2008 ASL Computer Applications Paper 2 Project Assignment

Candidates should complete **one** of the following project assignments. Candidates may develop a prototype of the application in the project assignment to demonstrate the design.

Title 1: e-Classroom System for Supporting Teaching and Learning

- Candidates are required to design an e-Classroom system for a school to support teaching and learning.
- Candidates should propose
 - the functions of the system for supporting teaching and learning (e.g. online polling and multiple-choice testing)
 - the hardware and software required
 - > the network design
 - the underlying database design for the suggested functions (e.g. online polling)
- Candidates should analyse the feasibility of implementing the proposed system.

Title 2: Instant Messaging System

Instant Messaging System (IMS) is a real-time communications system that makes communication via a network easier.

- Candidates are required to investigate and compare two different network models, the client-server model and the peer-to-peer model, in implementing an IMS on a network.
- Candidates are required to design an IMS for a school so as to facilitate communication between teachers and students.
- Candidates should propose
 - the functions of the IMS for facilitating communication (e.g. instant messaging and file transfer)
 - the network design for data flow
 - > the system requirements
 - a database schema to support the proposed function(s) (e.g. history of messages and contact list)
- Candidates should analyse the feasibility of implementing the proposed system.

END OF PAPER

香港考試及評核局 2008年香港高級程度會考 高級補充程度 電腦應用 試卷二 習作報告

考生須完成下列**其中一道**習作題目。 考生可開發習作報告內一個原型應用系統,以展示其設計。

第一題:支援教學的電子教室系統

- 考生需爲學校設計一個支援教學的電子教室系統。
- 考生須提出
 - ▶ 此系統內支援教學的功能 (例如在線投票區及多項選擇題測驗)
 - ▶ 所需硬件及軟件
 - ▶ 網絡設計
 - 有關功能(例如在線投票區)的基本數據庫設計
- 考生須分析實現這個系統的可行性。

第二題:即時信息系統

即時信息系統是一個實時通訊系統,促進在網絡上人與人之間的溝通。

- 考生需探究及比較以客戶機/伺服器網絡及對等網絡這兩種不同網絡模式在網絡中 建構一個即時信息系統。
- 考生需爲學校設計一個即時信息系統,以促進老師和學生之間的溝通。
- 考生須提出
 - ▶ 此系統內促進溝通的功能(例如即時信息及檔案傳輸)
 - ▶ 數據流程的網絡設計
 - ▶ 系統要求
 - ▶ 支援某一項(多項)功能(例如信息記錄及連絡人地址)的數據庫模式(database schema)
- 考生須分析實現這個系統的可行性。

試卷完