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

■ 考生需為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／伺服器網路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。
■ 考生需為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