



*Date:* 07.03.08

*Time :* 4.00pm to 5.30pm

**Answer all questions**

**Q1.**

- a) Explain the following statements.
  - i) Why every man made system cannot be automated?
  - ii) Why all man made systems are not physical systems?
  - iii) Why all computer based systems are not fully automated?
- b) It is proposed to automate the function of an ordinary door. Explain how far you can achieve the automation of the door using each of the following:
  - i) Door-closer
  - ii) Electric motor
  - iii) Electric motor with a computer
- c) What are the differences between information and knowledge?

**Q2.**

- a) Discuss how far the Database technology is important for the following systems.
  - i) Real time systems
  - ii) On – line systems
  - iii) Batch processing systems
- b) Out of the above systems which automated system is more suitable to develop an online billing system for mobile telephone service provider? Justify your answer.
- c) Determine which of the following statements are TRUE or FALSE.
  - i) Using a DBMS we can eradicate data redundancy.
  - ii) All automated systems are not man made systems.
  - iii) On-line systems need less RAM capacity than real-time systems.
  - iv) Real-time systems work on first-come first serve basis.
  - v) Database system contains a DBMS and a database.

**Q3.**

- a) What is a DBMS? How it supports to the database technology?
- b) MS – Access is one kind of relational databases. Justify your answer.
- c) Which technologies can be used for supporting management levels of an organization?