

**SOUTH EASTERN UNIVERSITY OF SRI LANKA****FIRST EXAMINATION IN BACHELOR OF SCIENCE IN MANAGEMENT AND  
INFORMATION TECHNOLOGY 2009/2010****SEMESTER-1, AUGUST-2011****MIT 11033 - Introduction to Information Technology**Answer all questionsTime: 3 Hours**Q1.**

- i. Explain the contribution of Information Technology in the following fields
    - a) Information Technology in education and training
    - b) Information Technology in business industry
    - c) Information Technology in health industry

(6 Marks)
  - ii. Briefly explain the six IT decisions that IT people should make before investing on IT and the consequences of abdicating those decisions.

(6 Marks)
  - iii. Computer viruses are major threat to business. List out symptoms that a computer will show up when infected.

(3 Marks)
  - iv. How can you protect your computer from computer virus?

(2 Marks)
  - v. Define Macro virus, File virus and Boot virus.

(3 Marks)
- (Total 20 Marks)

**Q2.**

- i. Illustrate the components of a computer system with suitable examples.

(4Marks)
- ii. Explain why Integrated Circuits Technology (IC) is powerful than Transistor Technology?

(3 Marks)

iii. Explain the followings.

- a) EEPROM
- b) ENIAC
- c) UNIVAC
- d) VLSI

(6Marks)

iv. Write down the functions of the followings.

- a) Uninterruptable Power Supply (UPS)
- b) Central Processing Unit (CPU)
- c) Mother Board.
- d) PCI Slots.

(4 Marks)

v. Differentiate the followings:

- a) Optical Mark Reader & Optical Character Reader
- b) Laser Printer & Ink jet Printer
- c) Magnetic Disk & Magnetic Tape.

(3 Marks)

(Total 20 Marks)

### Q3.

i. What do you mean by System Software and Operating System? And list out different functions of an Operating system.

(4Marks)

ii. Explain the history of Operating system relating to computer generation.

(4Marks)

iii. Explain the differences between MS-Windows operating system and MS- DOS operating system.

(4Marks)

iv. Explain the system start up process.

(2 Marks)

v. Briefly explain the functions of the following utility programs

- a) File Compression Utilities
- b) Network and Internet Utilities
- c) Backup Utilities
- d) Intrusion Detection Utilities

(6 Marks)

(Total 20 Marks)

**Q4.**

i. Briefly explain six (6) internet services.

(3Marks)

ii. Define Network topology. And explain four (4) types of topologies.

(5Marks)

iii. What do you mean by Network Architecture? And identify three (3) concepts central to OSI reference model.

(4Marks)

iv. List out the functions of the following Layers.

- a) The Physical Layer
- b) The Transport Layer
- c) The Presentation Layer
- d) The Application Layer

(6Marks)

v. Compare OSI reference model with TCP/IP.

(2 Marks)

(Total 20 Marks)

**Q5.**

Differentiate the followings:

- a) Primary storage devices & Secondary storage devices

- b) Super Computers & Mainframe Computers
- c) System software & Application software
- d) Input Devices & Output Devices
- e) Compiler & Interpreter
- f) Impact Printer & Non- Impact Printer
- g) Local Area Network & Wide Area Network
- h) Peer to peer Network & Client Server Network
- i) Protocol Data Units (PDUs) & Service Data Units (SDUs)
- j) Protocol & Topology.

(Total 20 Marks)