



EASTERN UNIVERSITY, SRI LANKA

DEPARTMENT OF MATHEMATICS

FIRST YEAR EXAMINATION IN SCIENCE –2009/2010

FIRST SEMESTER (Jun, /Aug, 2011)

CC 101 – FUNDAMENTALS OF COMPUTER SYSTEMS

(PROPER & REPEAT)

Answer all questions

Time allowed: 01 hour

01.

A. Write the best possible answer from I to X

I. Central Processing Unit is a combination of

- a. Arithmetic logic and input unit
- b. Control and storage
- c. Arithmetic logic and control unit
- d. Control and output unit

II. Artificial Intelligence is associated with which generation?

- a. Second Generation
- b. Sixth Generation
- c. Fifth Generation
- d. Fourth Generation

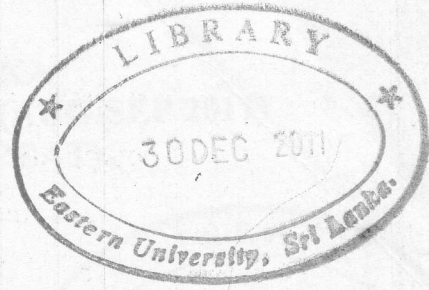
III. The term gigabyte refers to

- a. 1024 Megabytes
- b. 1024 bytes
- c. 1024 gigabyte
- d. 1024 kilobytes

IV. A hybrid computer

- a. Resembles digital computer
- b. Resembles analog computer
- c. Resembles both a digital and analog computer
- d. None of the above

- V. a factor which would strongly influence a business person to adopt computer is its
- Accuracy
 - Reliability
 - Speed
 - All of above
- VI. Which of the following terms is the most closely related to main memory?
- Non volatile
 - Permanent
 - Control unit
 - Temporary
- VII. Which of the following produces the best quality graphics reproduction?
- Laser printer
 - Ink jet printer
 - Plotter
 - Dot matrix printer
- VIII. A disadvantage of the laser printer is
- It is quieter than an impact printer
 - It is very slow
 - The output is of a lower quality
 - None of the above
- IX. Different components of the motherboard of a PC unit are linked together by sets of parallel electrical conducting lines. What are these lines called?
- Conductors
 - Buses
 - Connectors
 - Consecutives



- X. The first electronic computer in the world was
- a. UNIVAC
 - b. EDVAC
 - c. ENIAC
 - d. All of above

B. Define the following terms:

- a) Data,
- b) Information.

C. Explain various components of computer with the help of a block diagram.

D. State advantages and limitations of computers.

E. List and explain various fields of application of computers.

F. List and explain five input devices.

02.

A. Differentiate between

- a) Impact and Non-impact Printers
- b) Volatile and non-volatile Memory

B. Write short notes on the following

- a) LAN and WAN
- b) Output devices

C. Compare and contrast various types of ROMs.

D. Convert $(98)_{10}$, $(128.25)_{10}$, $(658)_{10}$ to Binary.

E. Convert $(11110011)_2$, $(00110011.111)_2$, $(1111.1111)_2$ to Octal.

F. Convert $(59)_{10}$, $(728.25)_{10}$, $(411)_{10}$ to Hexadecimal.

G. List and explain various types of topologies in Computer network.