EASTERN UNIVERSITY, SRI LANKA
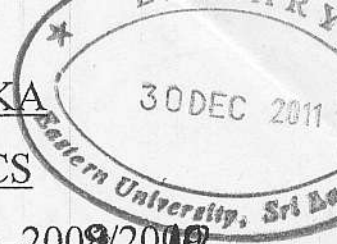
DEPARTMENT OF MATHEMATICS

FIRST YEAR EXAMINATION IN SCIENCE –2008/2009

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 a computer is its

    a. Accuracy

    b. Reliability

    c. Speed

    d. All of above

VI. Which of the following terms is the most closely related to main memory?

    a. Non volatile

    b. Permanent

    c. Control unit

    d. Temporary

VII. Which of the following produces the best quality graphics reproduction?

    a. Laser printer

    b. Ink jet printer

    c. Plotter

    d. Dot matrix printer

VIII. A disadvantage of the laser printer is

    a. It is quieter than an impact printer

    b. It is very slow

    c. The output is of a lower quality

    d. 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?

    a. Conductors

    b. Buses

    c. Connectors

    d. 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.