

EASTERN UNIVERSITY, SRILANKA

FIRST EXAMINATION IN SCIENCE –2008/2009

FIRST SEMESTER (Apr. /May. 2010)

CC 101 – FUNDAMENTALS OF COMPUTER SYSTEMS

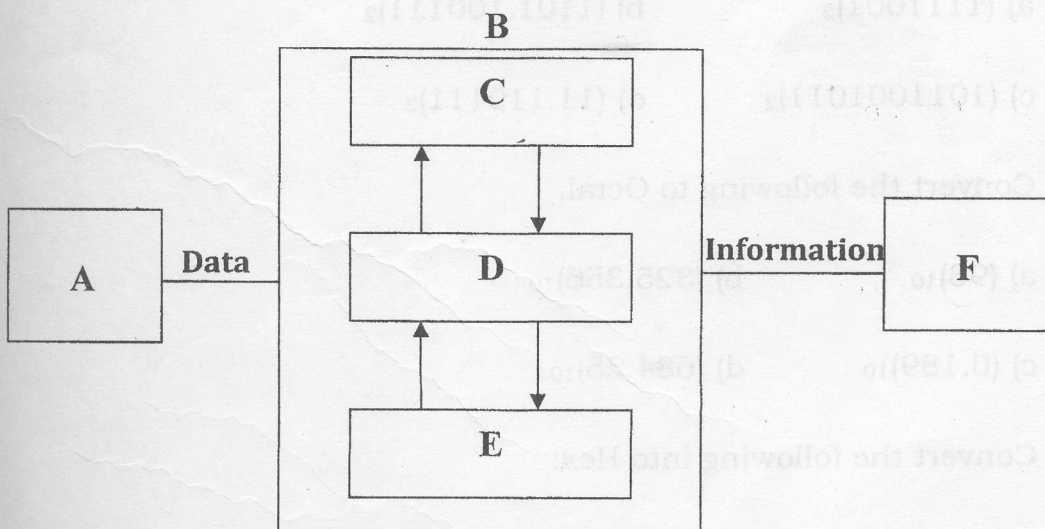
(PROPER & REPEAT)

Answer all questions

Time allowed: 01 hour

01.

- (i) Define the following terms;
- a. **Random Access Memory(RAM);**
 - b. **Read Only Memory(ROM);**
 - c. **Registers;**
- (ii) What is a computer? Define **A, B, C, D, E, and F** on the following diagram of a computer and describe their major functions.



- (iii) Briefly describe the “**Computer Generations**”.
- (iv) What are devices which perform both **Input and Output**?

(v) Describe each of the following;

- a). Monitor; b). Dot Matrix Printer;
c). Inkjet Printer; d). Laser Printer.

(vi) Draw the "Categories of computers" chart and describe **any four** types of computers.

02.

(i) Define the following terms:

- a) *Bit* b) *Byte* c) *Nibble* d) *Word*.

(ii) Convert the following into Binary:

- a) $(635)_{10}$ b) $(345.78)_{10}$
b) c) $(987)_{10}$ d) $(0.542)_{10}$

(iii) Convert the following into Octal:

- a) $(1111001)_2$ b) $(1101.100111)_2$
c) $(1011001011)_2$ d) $(11.110111)_2$

(iv) Convert the following to Octal.

- a) $(98)_{10}$ b) $(325.356)_{10}$
c) $(0.189)_{10}$ d) $(684.25)_{10}$

(v) Convert the following into Hex:

- a) $(521)_{10}$ b) $(972)_{10}$ c) $(0.365)_{10}$ d) $(15.379)_{10}$

(vi) Explain the following network topologies:

- a) *Bus Topology* b) *Star Topology* c) *Ring Topology*.