IT 1201 INFORMATION AND COMMUNICATION TECHNOLOGY (THEORY)

(Repeat)

ANSWER ALL QUESTIONS   **TIME: 1 HOUR**

Q1.

(i)   Discuss the differences between Data and Information.

(ii) What is a Computer? Draw the block diagram of a computer.

(iii) Explain briefly what it means by an Operating System. List 5 examples for Operating Systems.

(iv) Explain Analog, Digital & Hybrid computers.

(v)   What do you mean by Software? List the different types of software and explain them.

(vi) Briefly explain the Primary Memory and Secondary Memory.

(vii) Describe the following:

    a. Input Devices;

    b. Output Devices.

Q2.

(i)   Convert the following into Binary numbers:

    a. $(952)_{10}$;   b. $(256)_8$;   c. $(ABC)_{16}$.

(ii) Convert the following into Octal numbers:

    a. $(1023)_{10}$;   b. $(7D4)_{16}$;   c. $(10101110)_2$.

(iii) Convert the following into Hexadecimal numbers:

    a. $(952)_{10}$;   b. $(256)_8$;   c. $(10101110)_2$.

(iv) Define the term "Computer Network".

(v)   Discuss the advantages and disadvantages of e-mail over the traditional postal system.

(vi) Define the term "Computer Virus", and briefly explain how to protect a computer from virus?

(vii) Explain briefly the usefulness of "Information Technology" in the Health sector.