END TERM EXAMINATION

FIRST SEMESTER [MCA] DECEMBER 2007

Paper Code: MCA101   Subject: Introduction of Information Technology

Time: 3Hours   Maximum Marks: 60

Note: Attempt five question including Q.1, which is compulsory.

Q1. (a) Compare and contrast the following: -

   (i)   Compiler vs. Interpreters
   (ii)   CISC vs. RISC processor
   (iii)   RDBMS vs. Hierarchical database management system
   (iv)   Star vs. Ring topology
   (v)   Www vs. http

   (b) Explain the following LINUX/UNIX commands (with brief examples):-

   (i)   su
   (ii)   ls
   (iii)   cat
   (iv)   more
   (v)   grep

   (c) Explain The following in brief: -

   (i)   DNS
   (ii)   ftp
   (iii)   Batch processing operating system
   (iv)   Quantization

Q2.   (a) What are the different generations of computers? Describe briefly.
        (b) Describe the working principle and design of compact disk storage devices.

Q3.   (a) Compare the architecture (with merits and demerits) of the DOS and UNIX   operating
            system.
         (b) What is the difference in the execution of DOS based (16 bit) programs in windows 9x
            and Windows NT? Explain briefly.

Q4.   (a) Explain how analog signals can be digitized? Also, explain how the analog signal can be
        recovered from digitized signals?
         (b) Describe the architecture of Metropolitan area networks.

Q5.   (a) What are the components of a multimedia system? Explain each of them briefly.
         (b) Explain, how a search engine gathers the information about web site and web pages?

Q6. (a) Explain how dairy wheel and inkjet printers work.
(b) Construct the flow chart of multiplying two compatible matrices.

Q7. Write short notes on **any two**: -
(a) Internet as an "information source"
(b) Distributed database systems.
(c) Type(s) of primary memory devices.
(d) Generic application software's