(Please write your Roll No. immediately) *Roll No.* 00314 12004

END-TERM EXAMINATION

dec 2004

FIRST SEMESTER [BCA/BIS] - DECEMBER 2004

Paper Code: BCA 107 / BIS 109 Subject: Fundamentals of IT / IT

Time : 3 Hours ***Maximum Marks : 75***

Note: Attempt six questions in all including Q.1 which is compulsory. Q.1 carries 15 marks and remaining questions carry 12 marks each.

Q.1 Attempt **any five**:-

(a) What are Error-Detecting Codes? Explain.

(b) What is Read Only Memory? Describe different types of ROM.

(c) Convert-

(i) $(73.9)_{10}$ to Octal

(ii) $(134.07)_{8}$ to Hexadecimal.

(d) Describe briefly the different types of software.

(e) What are the characteristics of a computer?

(f) Discuss Distributed and Parallel computer systems.

Q.2 Differentiate between the following (Do **any three**):-

(a) RAM and ROM

(b) Real Memory and Virtual Memory

(c) DOS and WINDOWS

(d) HLL and LLL.

Q.3 (a) What are the various Input and Output Devices? Describe three of each type.

(b) What are the various units of a computer? Briefly describe each unit.

Q.4 (a) What are Programming Languages? Briefly discuss the different types and their characteristics.

(b) Explain the following-

(i) Floating Point representation of numbers

(ii) RISC

Q.5 (a) What Security and Privacy issues contribute to limitation of the Web? Discuss.

(b) What is a Data Base Management System? What are its advantages over conventional File-processing systems?

Q.6 (a) Explain Client-Server Architecture. How does it relate to communication taking place between computers on the Internet?

(b) What are the different types of Network Topologies? Discuss their relative advantages and disadvantages.

Q.7 Write short notes on **any two** of the following:

(a) Multiprogramming

(b) Firewall

(c) www