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

END-TERM EXAMINATION

FIRST SEMESTER [BCA/BIS] - DECEMBER 2003

Paper Code: BCA/BIS 107/109 Subject: Fundamentals of 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 Q.2 to Q.7 carry 12 marks each.

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

(a) Explain the architecture of computer.

(b) Perform: (125.6) 8 + (537.9) 8
(AE5.BC) 16 + (319.8) 16

(c) Explain the terms data and information.

(d) Discuss distributed and parallel computer systems.

(e) What do you mean by RISC. Explain its features.

(f) What is a memory cell? Explain with a diagram.

(g) What is fixed and floating-point number representation?

Q.2 Differentiate between

(a) LAN and WAN

(b) Impact and Non-impact printer

(c) Primary and Secondary Memory

Q.3 (a) Explain the operating system as resource manager and coordinator of processor.

(b) Describe the command-based operating system. Explain with the help of an example.

Q.4 (a) Define the terms hardware and software. What is a software package? Illustrate with an example of entertainment software.

(b) Explain the following terms: -

(i) Computer Viruses

(ii) Plotter

Q.5 (a) What are the various characteristics of DBMS? Explain its architecture in brief?

(b) What is www browser? Differentiate between line browser and graphical browser.

Q.6 (a) Differentiate between distributed and computer networks.

(b) Explain the addressing scheme for Internet. What do you understand by URL?

Q.7 Write short notes on **any two**:

(a) Computer virus

(b) Information systems

(c) Interrupt structures