Subject Code 4264

M.C.A. (First Year) EXAMINATION

June 2006

(5 Years Integrated Course)

MCA-101

COMPUTER FUNDAMENTALS

Time: 3 Hours Maximum Marks: 100

Note: Attempt any Five questions. All questions carry equal marks.

- 1. (a) Discuss the ways in which characters and fractional numbers are represented in computers.
 - (b) Why Hexadecimal Representation of Numbers is important in computers?
- 2. (a) Describe a digital computer with its basic components.
 - (b) Why Random Access Memory is called so? Differentiate between Static and Dynamic RAM.

- 3. (a) Discuss the subtraction of numbers using 2's complement form.
 - (b) 48 and 8 are two numbers in Decimal numbers system. Convert them to Binary and carry out division and multiplication.
- 4. (a) What should be the characteristics of a good programming language?
 - (b) Compare the advantages of Assembly Language and High Level Language.
- 5. (a) What are the functions of an Operating System?
 - (b) Differentiate between Multiprogramming and Time Sharing.
- 6. (a) Discuss the various characteristics of First Generation of Computers.
 - (b) What are Distributed and Parallel

Dynamic RA

- 7. (a) Define the terms networks, internet, intranet.
 - (b) Discuss the characteristics of Twisted Pair and Optical Fibre.
- 8. (a) Write a note on Network Topologies.
 - (b) Differentiate between LAN, WAN, MAN.

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