Time : **3** Hours] [Total Marks : **70**

Instruction :

નીચે દર્શાવેલ ◆ નિશાનીવાળી વિગતો ઉત્તરવહી પર અવશ્ય લખવી.
Fillup strictly the details of ◆ signs on your answer book.

Name of the Examination :

◆ **M. C. A. (Sem. I)**

Name of the Subject :

◆ 101 : Computer Organization & Fundamentals of Operating Systems

◆ Subject Code No. : | 5 | 7 | 0 | 0 | ◆ Section No. (1, 2,.....) : | **Nil**

Seat No. :

Student's Signature

1 Do as directed : (Any **Two**) 16

(1) What is Computer Network ? Explain its application and advantages in detail.

(2) Define : Loader. Explain absolute and relocatable loader.

(3) Write a note on Windows NT architecture.

2 Answer the following : (Any **Three**) 18

(1) List out the impact printers. Explain the working of any one impact printer.

(2) What is interrupts ? How interrupt is handled by the processor ?

(3) Describe how optical storage works ?

(4) Write a note on bus architecture.

3   Answer the following : (Any **Three**)   **18**

(1)   List various Output devices. Explain the CRT technology used for the monitor.

(2)   Draw Block Diagram of Digital Computer and Explain each component in detail.

(3)   Define : Coding Scheme. List out various types of it. Explain each Coding schemes.

(4)   Define : Operating systems. Compare single user and multi user OS. Explain components of OS.

4   Answer the following :   **18**

(1)   Describe the role of various system and configuration files during booting process of DOS.

(2)   Compare ROM and RAM. Explain types of RAM.

(3)   Describe the steps of converting binary number into decimal, octal and hexadecimal number using proper example.