NM-497   Seat. No:_____

First Year B. C. A. (Sem. I) Examination
October – 2004
Computer Organization - 103

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

Instruction : Figures to the **right** indicate **full** marks.

1 Answer the following questions :   12

(1) What is the difference between direct and indirect addressing ?

(2) What do you mean by co-processor ?

(3) What do you mean by machine cycle ?

(4) Define terms – Bus and Port.

(5) What does the 1st MB of main memory contain ?

(6) What does Root Directory contain ?

(7) What do you mean by clusters ?

(8) What are different types of read/write head ?

(9) What is segment offset ?

(10) What is difference between Hypertext and Hypermedia ?

(11) What is IP address ? Explain function of it.

(12) What is the function of ISP ?

2 (a) Describe evolution of computers.   8

(b) Define the term Operating System ? List out   6
different types of OS ? Describe in brief different
functions performed by OS.

OR

2 (a) What are impact and non-impact printers ? Explain each   8
one with an example.

(b) Write a note on Compiler and Interpreter.   6

3　(a)　Explain different factors affecting the processing　　8
　　　　speed of a CPU.

　　(b)　What is CISC and RISC ? Which is superior ? How ?　6

<p align="center">OR</p>

3　(a)　Explain Memory Organization.　　8

　　(b)　What is virtual memory ? How it works ?　　6

4　(a)　Explain BIOS in detail.　　6

　　(b)　Explain in brief about Boot record and FAT.　　6

　　(c)　How CPU executes program instructions ?　　4

<p align="center">OR</p>

4　(a)　What is modulation and demodulation ? Explain　　6
　　　　with an example.

　　(b)　Write a note on optical storage devices.　　6

　　(c)　Explain boot-up process in brief.　　4

5　(a)　What is E-mail ? How it works ?　　6

　　(b)　Explain following with reference to Chatting :　　6

　　　　(1)　Finding a Chat partner.

　　　　(2)　Sending a message.

　　　　(3)　Receiving a message.

　　　　(4)　Sending a Chat request.

<p align="center">OR</p>

5　(a)　What is Web Browser ? Explain how it works.　　5

　　(b)　Explain how Internet works.　　5

　　(c)　What is URL ? What does it contain ?　　2